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Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977-91

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Detailed Statistical Tables
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Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977-91

Project Officer: Susan T. Hill

Surveys of Science Resources Series
National Science Foundation

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Contributors

Data collection, preparation, and tabulations were performed by Quantum Research Corp. for the National Science Foundation. The Project Officer for this report was Susan T. Hill.

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General Notes

This publication is based on data obtained by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. These data cover earned degrees conferred in the aggregate United States, which includes the 50 States, the District of Columbia, and the U.S. Territories and Outlying Areas (American Samoa, the former Canal Zone, the Northern Mariana Islands, Puerto Rico, the Virgin Islands, and the Trust Territory of the Pacific Islands). Degree data are compiled for a 12-month period, July of one year through June of the following year. For convenience, degrees for such a given 12-month period will be referred to by the year in which the period ended, e.g., 1991 means the 12-month period ending June 1991. There were changes in the classification of fields between 1981 and 1985. See the Technical Notes for information on the field classifications used.

Because racial/ethnic data were collected by broad fields of study only, the definition of science and engineering used by the National Science Foundation for this report must include fields normally not included. There are two instances where this difference has a large impact:

1. Social Sciences: The U.S. Department of Education includes History in this broad category, and

2. Engineering: Engineering technologies were included in the broad category of Engineering before 1987. To maintain trend data, this category was also included from 1987 to 1991.

For more information, please contact:

Susan T. Hill
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230

(703) 306-1774, ext. 6915
Internet: sthill@nsf.gov

SECTION A. TECHNICAL NOTES

Data presented in this report were derived from two surveys conducted by the National Center for Education Statistics (NCES), U.S. Department of Education: the Survey of Degrees and Other Formal Awards Conferred, and the Completions Survey. Data for the years 1976-77 through 1984-85 are from the Degrees Survey conducted during those years as part of the Higher Education General Information Survey (HEGIS). Data for 1982-83 were not completely processed and therefore were not released by NCES. Data for 1986-87 and 1988-91 are from the Completions Survey, which is a component of the Integrated Postsecondary Education Data System (IPEDS). IPEDS has replaced HEGIS as the new postsecondary education data collection system for NCES. Data from the HEGIS and IPEDS surveys are comparable for the variables used in this report.

These surveys requested data on the number of associate's, bachelor's, master's, doctoral, and first-professional degrees conferred by institutions of higher education. The data were requested according to sex of recipient and field of study for each degree level. Data on the race/ethnicity of degree recipients have been collected biennially by NCES for the Office of Civil Rights since 1976, but only at the broad field level[1] and according to the racial/ethnic designation of degree recipients.

The surveys were mailed to all accredited universities and colleges in the United States, including the U.S. Territories and Outlying Areas, for completion by the institution. Followup for nonresponse was conducted by letter and telephone. The overall response rate for institutions of higher education ranged between 85 percent and 96 percent.

Some institutions provided only the total number of completions, by award level and by sex; others provided the number of completions by award level, sex, and field but did not provide racial/ethnic data.

Imputations from 1977 to 1981 were created manually, and those for the years 1985 through 1991 were computer generated. The numbers of students for whom race/ethnicity was not imputed are much higher for 1985-91 than for the earlier years.

Imputations were developed for institutions that had provided incomplete racial/ethnic data. Some of these institutions had reported total degrees awarded but not racial/ethnic data, and others had reported totals that were larger or smaller than the sum of the racial/ethnic components. In the first case, wherein institutions did not report racial/ethnic data by field, NCES imputed data on the basis of an earlier response for each institution, if available. The table below indicates the percentage of imputed data in 1991, by award level and racial/ethnic category.

	Bachelor's	Master's
White, non-Hispanic	2.4	2.7
Black, non-Hispanic	2.5	2.4
Hispanic	6.5	5.4
Asian or Pacific Islander	14.9	7.1
Amer. Indian/Alaskan Native	5.0	4.1
Nonresident alien	2.8	4.6

In the second case, wherein racial/ethnic data were reported but did not add to the total degree recipients (or were reported as unknown in 1990 or 1991), NCES distributed the difference among the racial/ethnic groups for that institution. *Note*—this report, however, does not do that; unknowns are shown in the table.

This National Science Foundation (NSF) report differs from those published by NCES in three respects:

1. Data for the U.S. territories are included, whereas NCES excludes them from most of its published reports;

2. NSF corrected the major errors created in the keypunching of data, which had

affected the small numbers of minorities examined; and

3. The report provides the number of recipients, by field, for whom respondents had not supplied race/ethnicity data and lab-'s the data "unknown race/ethnicity," whereas NCES supplies data for these "unknowns" by creating a number for each racial/ethnic group that reflects the *proportion* of recipients nationally, by field, for whom respondents had furnished race/ethnicity data.

In this report the racial and ethnic categories among U.S. citizens who were baccalaureate recipients during the 1977-91 period are charted and tabulated. It is recognized that the concept of race/ethnicity is as much a socially constructed characteristic as a biological one. Scholars such as Farley and Allen have noted that "the sociological reality of race is more important than its biological reality. Race exerts a profound influence over the lives of people in this society."[2]

The following five racial/ethnic categories are used in Federal Government surveys of institutions and were utilized in the NCES surveys on degrees:

Black, non-Hispanic
American Indian or Alaskan Native
Asian or Pacific Islander
Hispanic
White, non-Hispanic

Persons who were U.S. citizens or foreign citizens admitted for permanent residence were classified into the above categories. The ethnic category of Hispanic took precedence over the racial categories in the data collection. In addition, nonresident aliens, i.e., those admitted to the United States for temporary residence, were separately identified as a sixth category in the survey. The nonresident aliens were not to be reported in the aforementioned racial/ethnic groups.

The definitions for the categories on the survey forms were the following:

Nonresident alien—A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. Resident aliens who are not citizens of the United States and who have been lawfully admitted for permanent residence (and who hold alien registration receipt cards—Form I-551/155) are to be reported in the appropriate racial/ethnic categories along with United States citizens.

Black, non-Hispanic—A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

American Indian or Alaskan Native—A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

Asian or Pacific Islander—A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. These areas include, for example, China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic—A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic—A person having origins in any of the original peoples of Europe, North Africa, or the Middle East (except those of Hispanic origin).

The manner of collecting racial and ethnic data is left to the discretion of the institution, provided that the system established results in reasonably accurate data. The information is gathered by NCES for the Office of Civil Rights, U.S. Department of Education, in compliance with title I of the Civil Rights Act of 1964 and title IX of the Education Amendments of 1972.

Field classifications used by NCES to collect racial/ethnic data in the degree surveys were based on broad field categories, i.e., the 2-digit level of field aggregations in the *Classification of Instructional Programs*. The historical changes in the classification of fields are shown beginning on page 5. Note that there was a change in the classifications used by NCES between 1981 and 1985. This change affected the data on Social Sciences primarily. For example, before 1985 Social Science included law enforcement, which was excluded from Social Science starting in 1985. Therefore, the charts showing changes in degrees awarded to each racial/ethnic group are based on data from 1985 to 1991, years in which the field classification categories were the same.

[1] Broad field level refers to the 2-digit program levels in the U.S. Department of Education, National Center for Education Statistics publication *Classification of Instructional Programs* (Washington, DC: U.S. Government Printing Office, 1991).

[2] Richard Farley and Walter R. Allen, *The Color Line and the Quality of Life in America* (New York: Russell Sage Foundation, 1987), p. 6

Historical changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) classification system

Fields of study collected in HEGIS, 1977-81	Fields of study collected in HEGIS/IPEDS, 1985-91
SCIENCE AND ENGINEERING (S&E)	**SCIENCE AND ENGINEERING (S&E)**
ENGINEERING	**ENGINEERING**
0910 Engineering (Includes Engineering, Engineering-Related Technologies, Trades Training, Industrial Training)	10 Communications Technologies
5300 Mechanical and Engineering Technologies	14 Engineering
	15 Engineering-Related Technologies
SCIENCES	**SCIENCES**
NATURAL SCIENCES	NATURAL SCIENCES
Physical Science	**Physical Science**
1910 Physical Sciences	40 Physical Sciences
Mathematical Science	**Mathematical Science**
1700 Mathematics	27 Mathematics
Computer Science	**Computer Science**
0700 Computer and Information Sciences	11 Computer and Information Sciences
Biological Science	**Biological Science**
0400 Biological Sciences	26 Biological Sciences/Life Sciences
Agricultural Science	**Agricultural Science**
0100 Agriculture and Natural Resources (Includes Agribusiness, Agricultural Sciences, Renewable Natural Resources)	02 Agricultural Sciences
	03 Conservation and Renewable Natural Resources
SOCIAL SCIENCES	SOCIAL SCIENCES
Social Science	**Social Science**
0300 Area Studies	05 Area, Ethnic, and Cultural Studies
2100 Public Affairs and Services (Includes Community Service, Public Administration, Parks and Recreation Management, Social Work and Helping Services, Law Enforcement and Correction, International Public Service)	44 Public Administration and Services (Does not include Parks and Recreation Management, and Law Enforcement and Correction)
2200 Social Sciences (Includes Ethnic Studies and History)	45 Social Sciences and History
5500 Public Service-Related Technologies	
Psychology	**Psychology**
2000 Psychology	42 Psychology

Historical changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) classification system

Fields of study collected in HEGIS, 1977-81	Fields of study collected in HEGIS/IPEDS, 1985-91
HEALTH FIELDS	**HEALTH FIELDS**
1200 Health Professions (Includes Nursing and Allied Health)	18 Health Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic)
1204 Dentistry	
1206 Medicine (M.D. Degree)	
1209 Optometry	
1210 Osteopathic Medicine (D.O. Degree)	
1211 Pharmacy	
1216 Podiatry or Podiatric Medicine or Chiropody	
1218 Veterinary Medicine (D.V.M. Degree)	
1221 Chiropractic	
NON–S&E	**NON–S&E**
0200 Architecture and Environmental Design	01 Agribusiness and Agricultural Production
0500 Business and Management	04 Architecture and Related Programs
0600 Communications	06 Business and Management
0800 Education	07 Business (Administrative Support)
1000 Fine and Applied Arts (Including Music, Art, Dance, Applied Design)	08 Marketing and Distribution
	09 Communications
	12 Personal and Miscellaneous Services
1100 Foreign Languages	13 Education
1300 Home Economics	16 Foreign Languages and Literatures
1400 Law	17 Allied Health
1500 Letters	19 Home Economics
1600 Library Science	20 Vocational Home Economics
1800 Military Sciences	21 Industrial Arts
2300 Theology	22 Law and Legal Studies
4910 Interdisciplinary Studies (Including Liberal Arts and Sciences, Interdisciplinary Studies)	23 English Language and Literature/Letters
	24 Liberal/General Studies
	25 Library Science
	28 Military Sciences
	29 Military Technologies
	30 Multi-/Interdisciplinary Studies
	31 Parks, Recreation, Leisure, and Fitness Studies
	32 Basic Skills
	33 Citizenship/Civil Activities
	34 Health-Related Activities
	35 Interpersonal Skills
9799 Other	

Historical changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) classification system

Fields of study collected in HEGIS, 1977-81	Fields of study collected in HEGIS/IPEDS, 1985-91	
	36	Leisure and Recreational Activities
	37	Personal Awareness
	38	Philosophy and Religion
	39	Theological Studies and Religious Vocations
	41	Science Technologies
	43	Protective Services
	46	Construction Trades
	47	Mechanics and Repairers
	48	Precision Production
	49	Transportation and Material Moving
	50	Visual and Performing Arts

SOURCE: National Science Foundation/SRS

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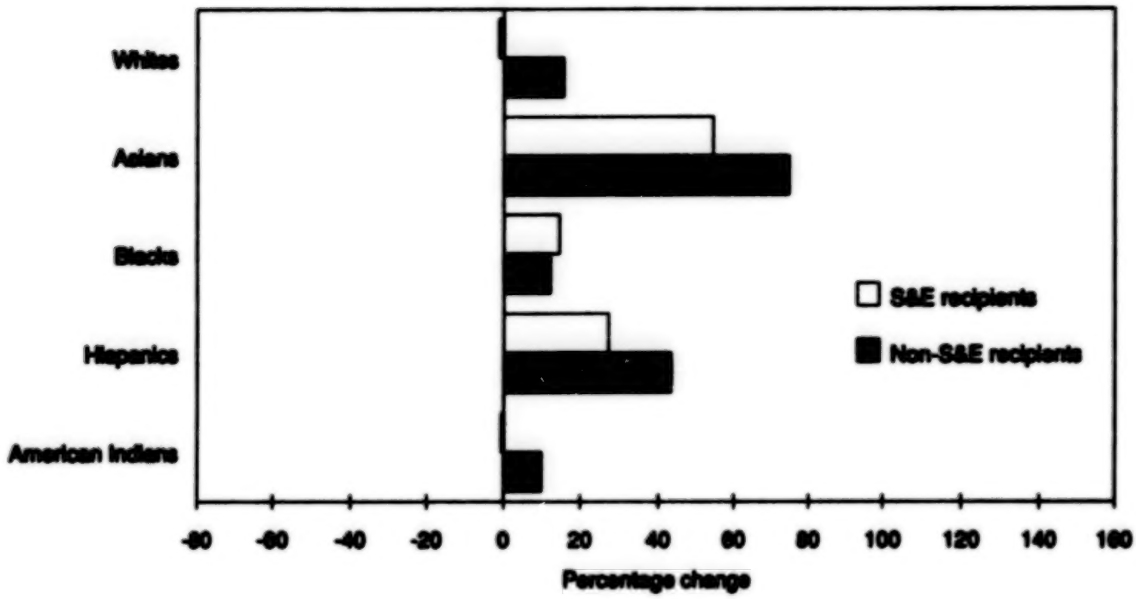
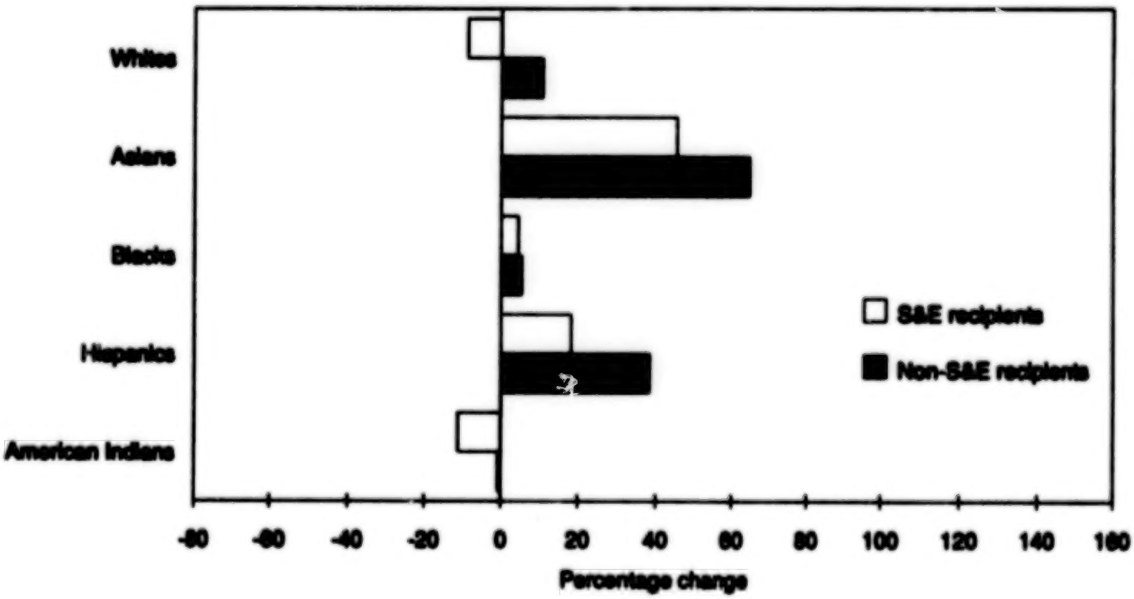


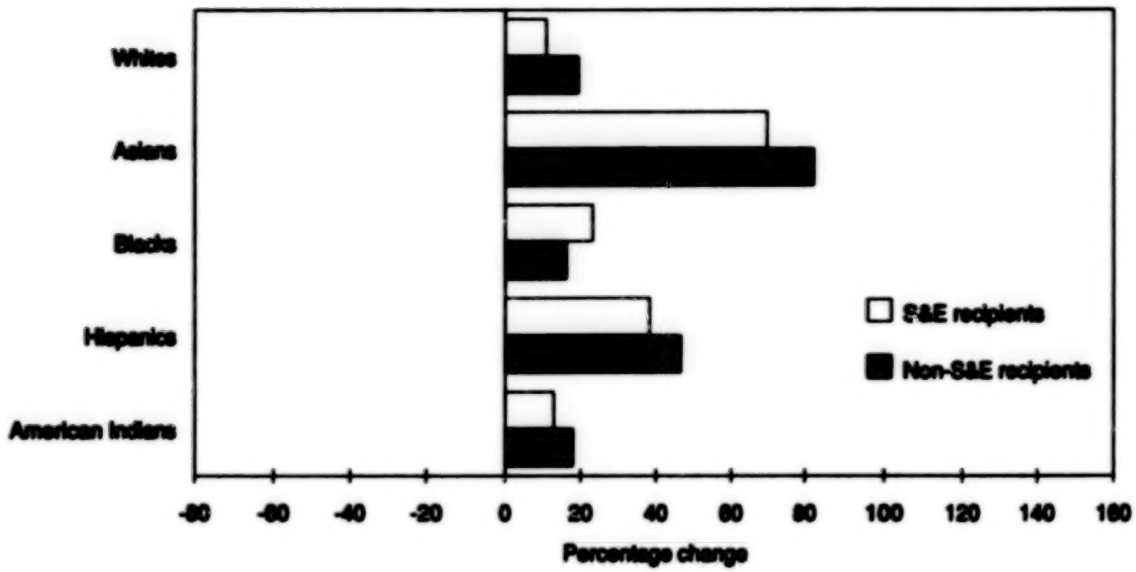
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 2. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to males, by race/ethnicity: 1985-91



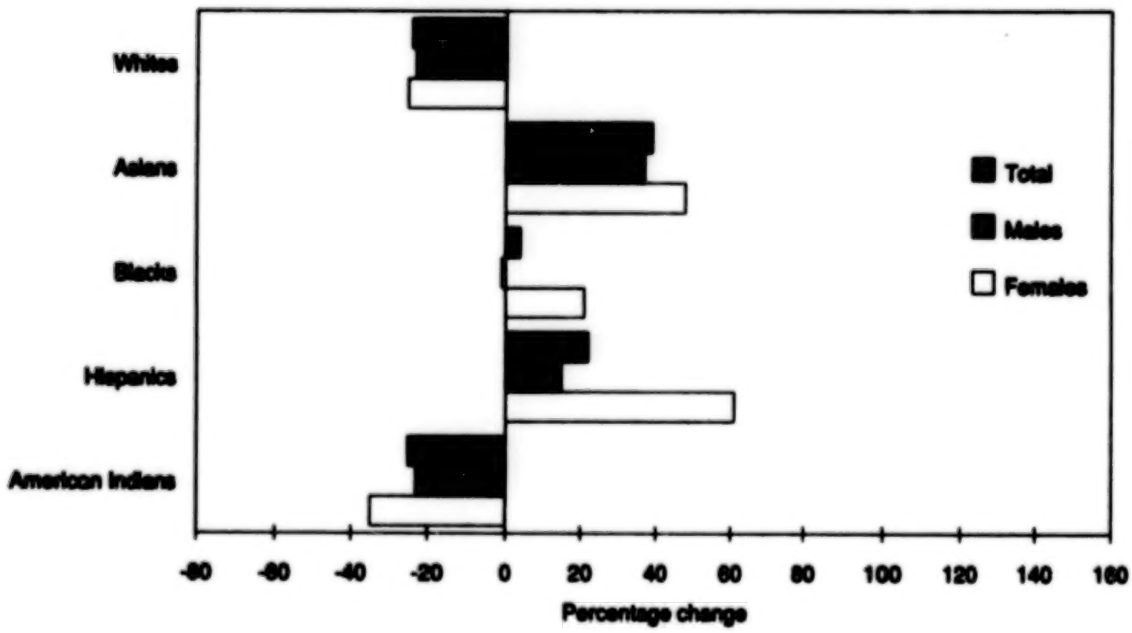
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 3. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to females, by race/ethnicity: 1985-91



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 4. Percentage change in engineering bachelor's degree recipients, by sex and race/ethnicity: 1985-91



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

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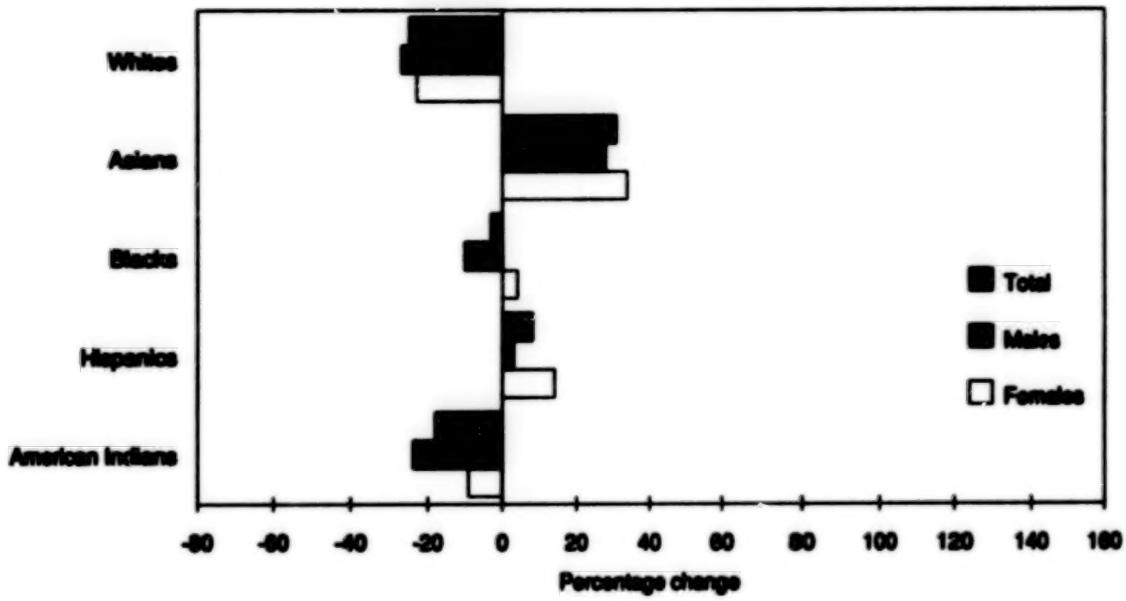
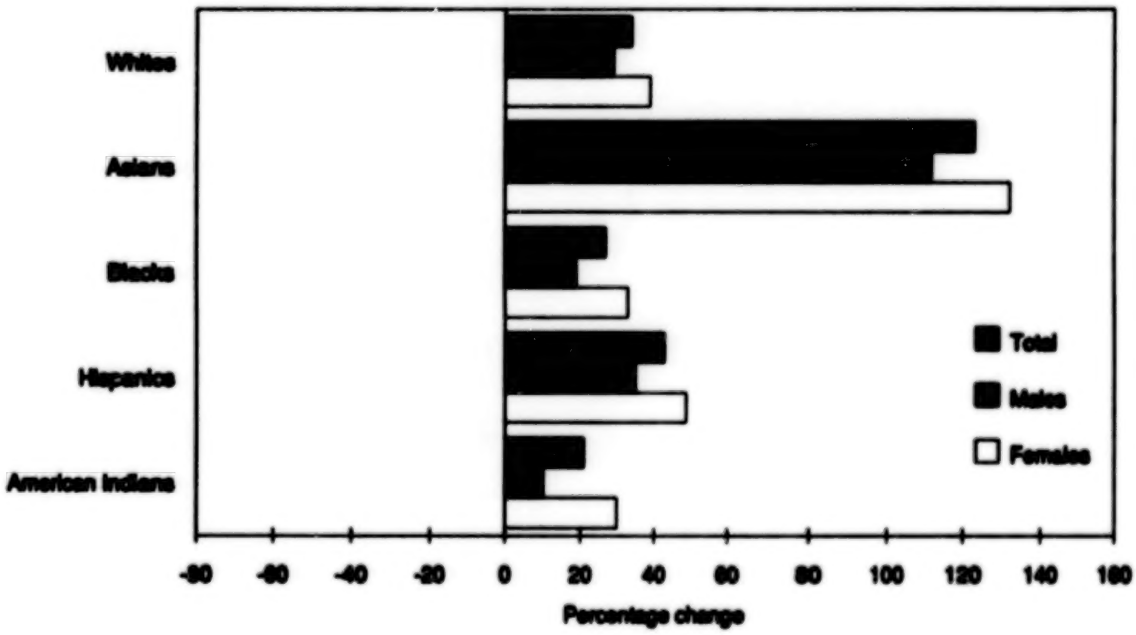


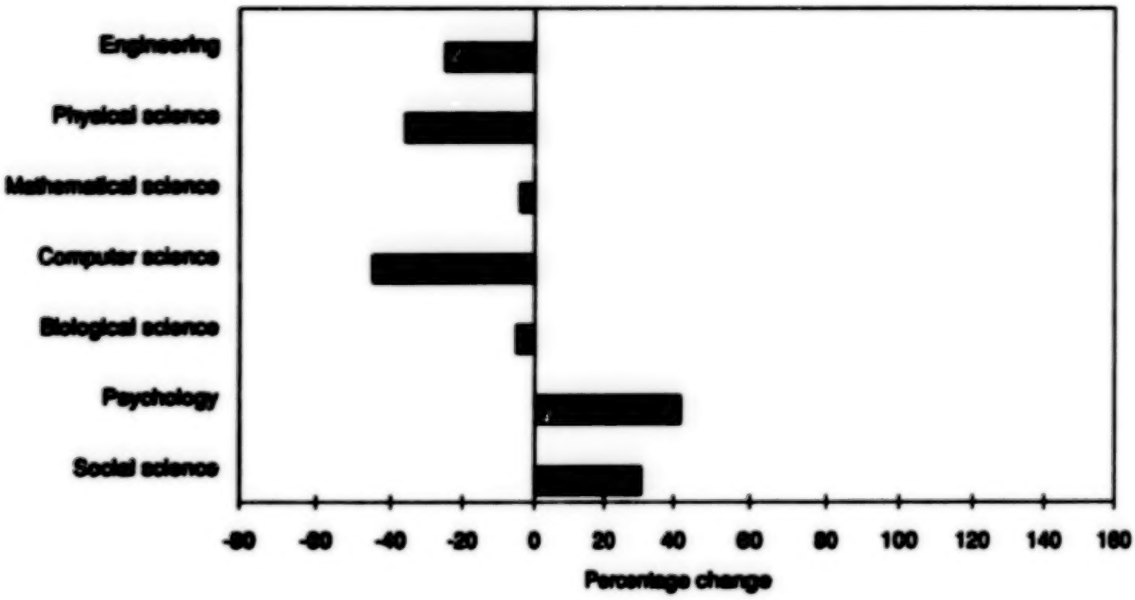
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 6. Percentage change in social sciences bachelor's degree recipients, by sex and race/ethnicity: 1985-91



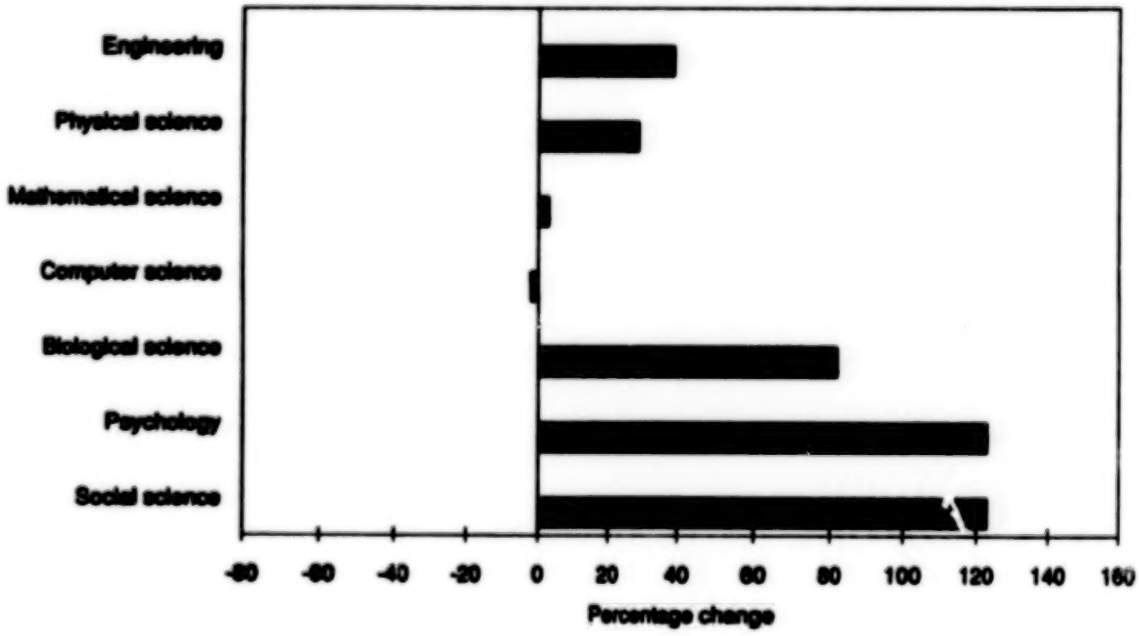
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 7. Percentage change in science and engineering bachelor's degrees awarded to whites, by field: 1985-91



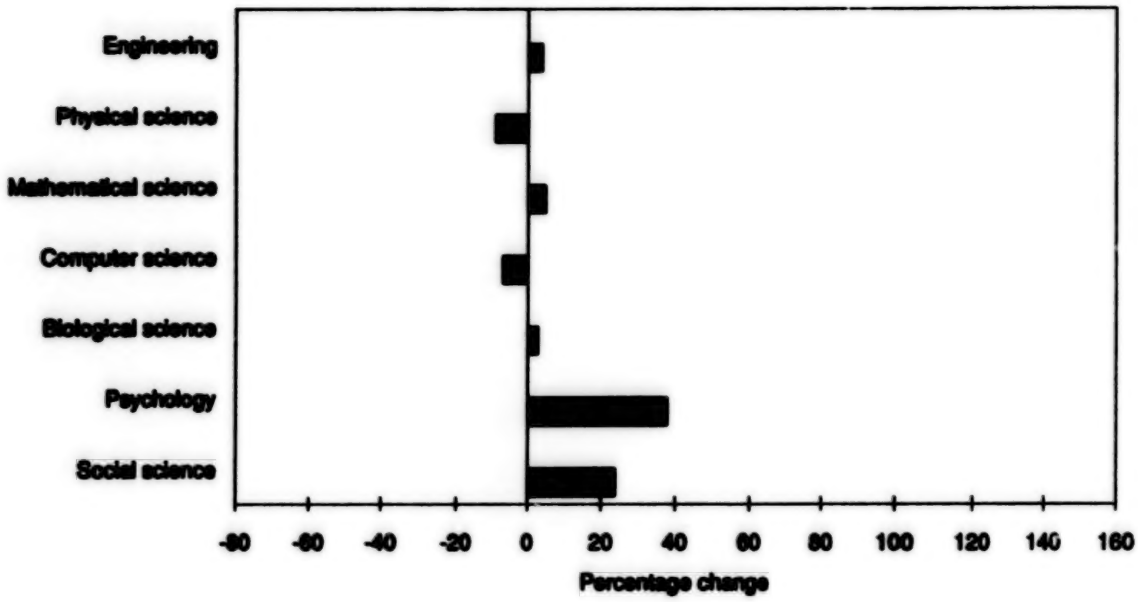
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 8. Percentage change in science and engineering bachelor's degrees awarded to Asians, by field: 1985-91



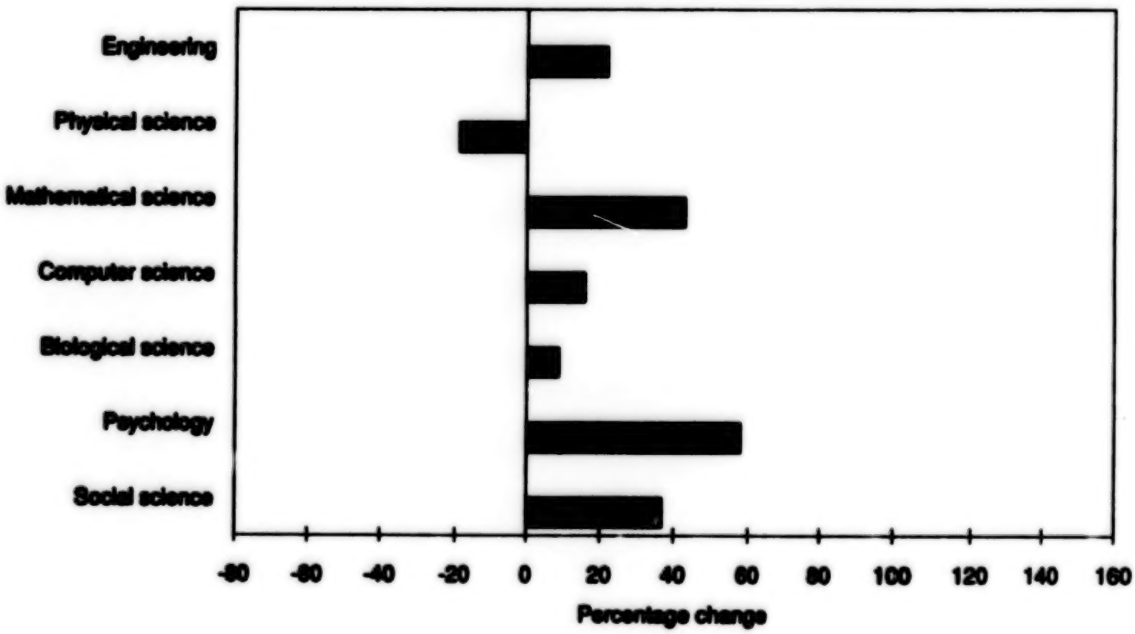
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 9. Percentage change in science and engineering bachelor's degrees awarded to blacks, by field: 1985-91



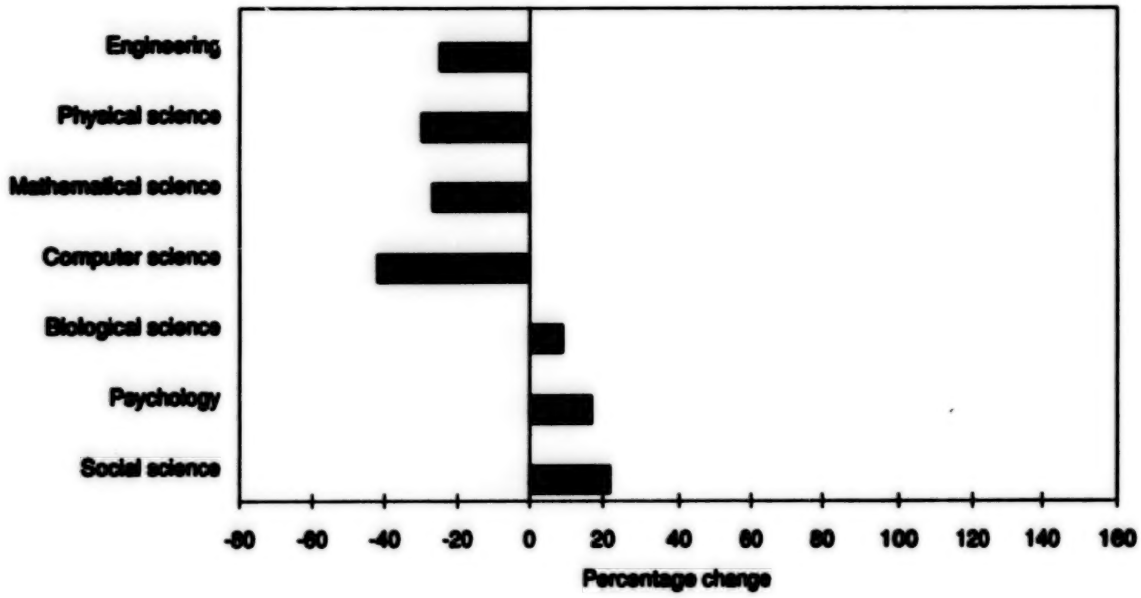
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 10. Percentage change in science and engineering bachelor's degrees awarded to Hispanics, by field: 1985-91



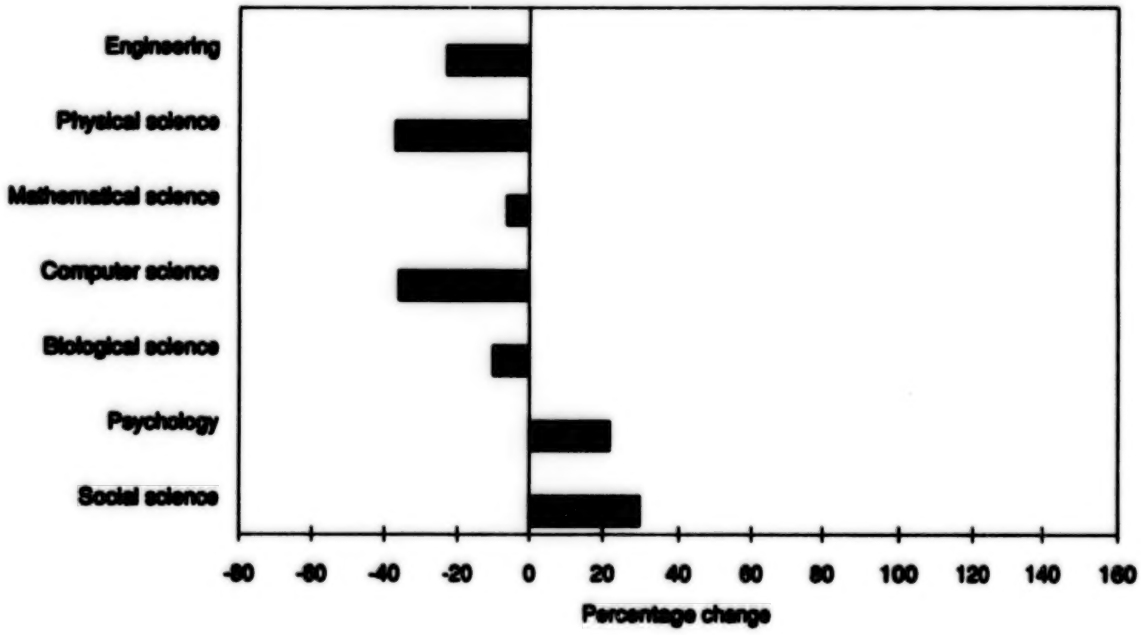
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 11. Percentage change in science and engineering bachelor's degrees awarded to American Indians, by field: 1985-91



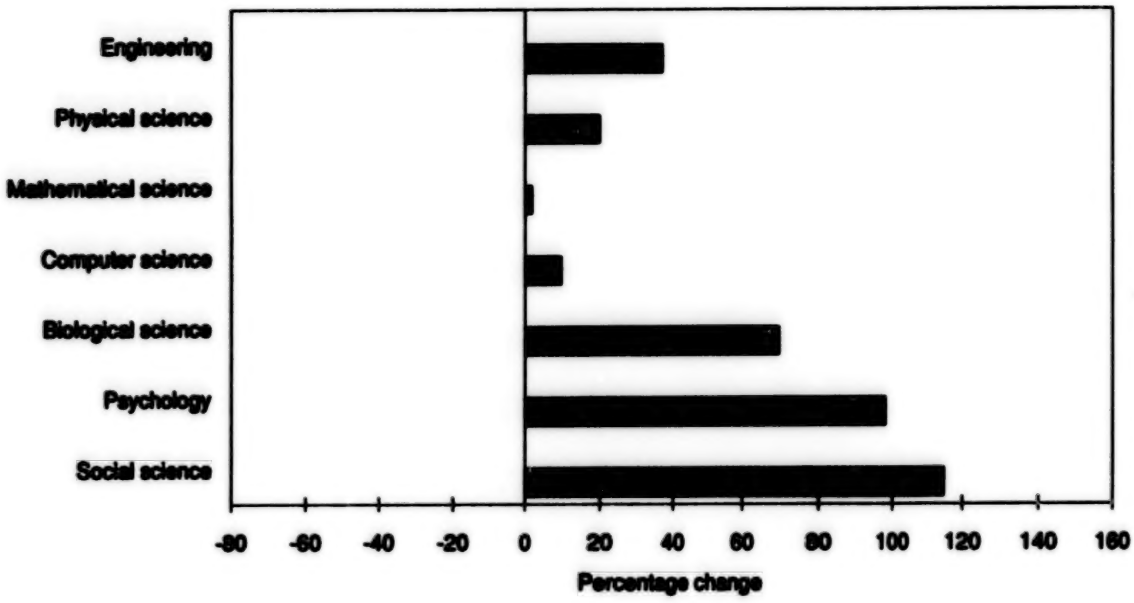
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 12. Percentage change in science and engineering bachelor's degrees awarded to white males, by field: 1985-91



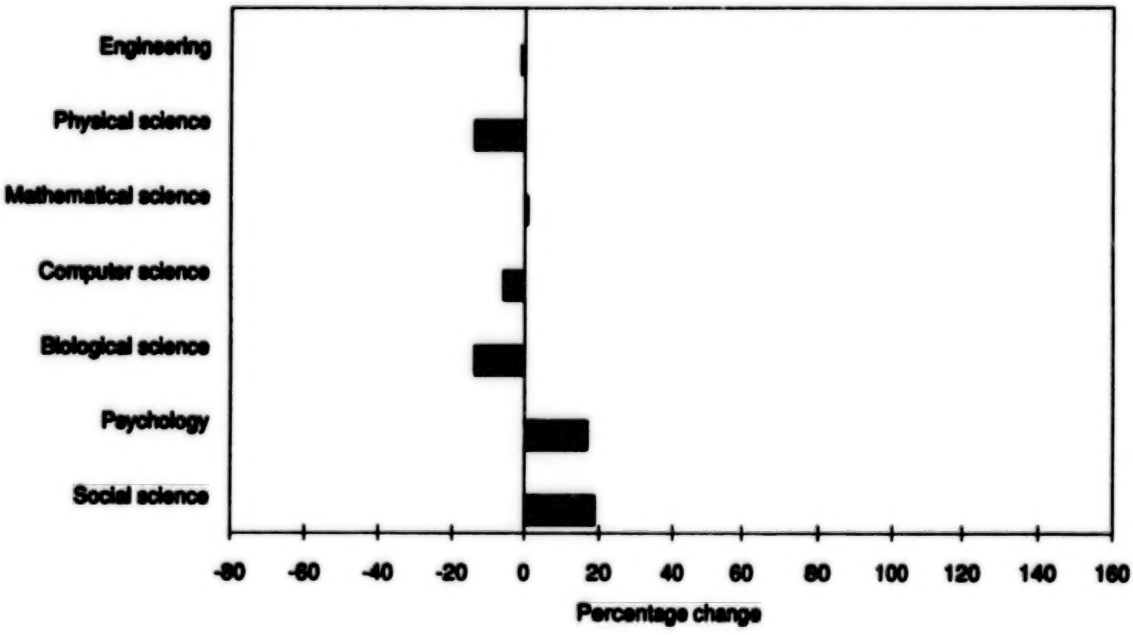
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 13. Percentage change in science and engineering bachelor's degrees awarded to Asian males, by field: 1985-91



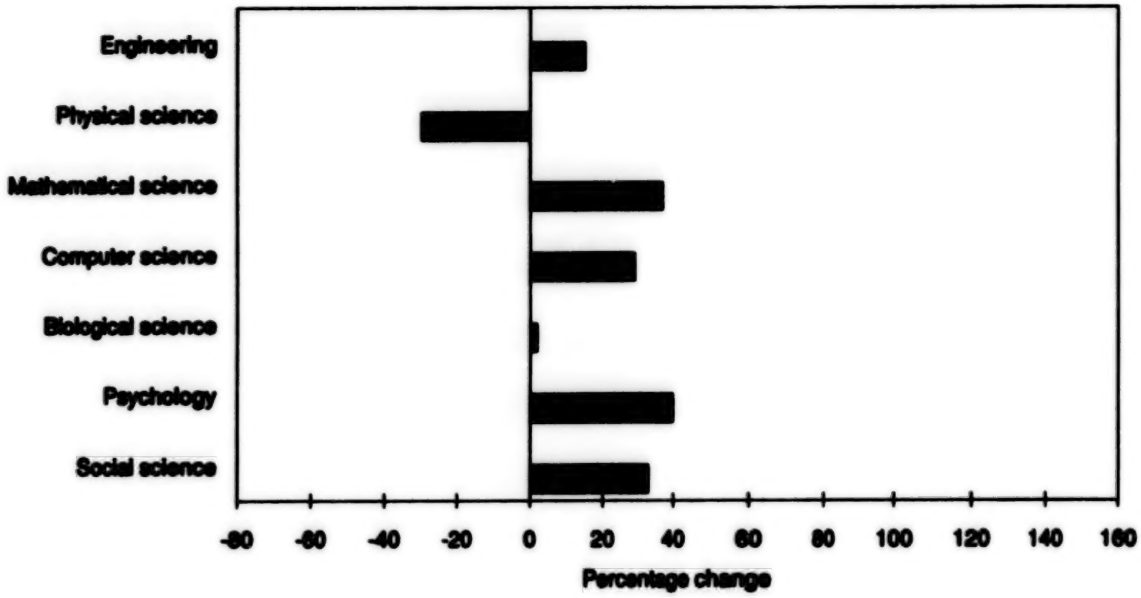
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 14. Percentage change in science and engineering bachelor's degrees awarded to black males, by field: 1985-91



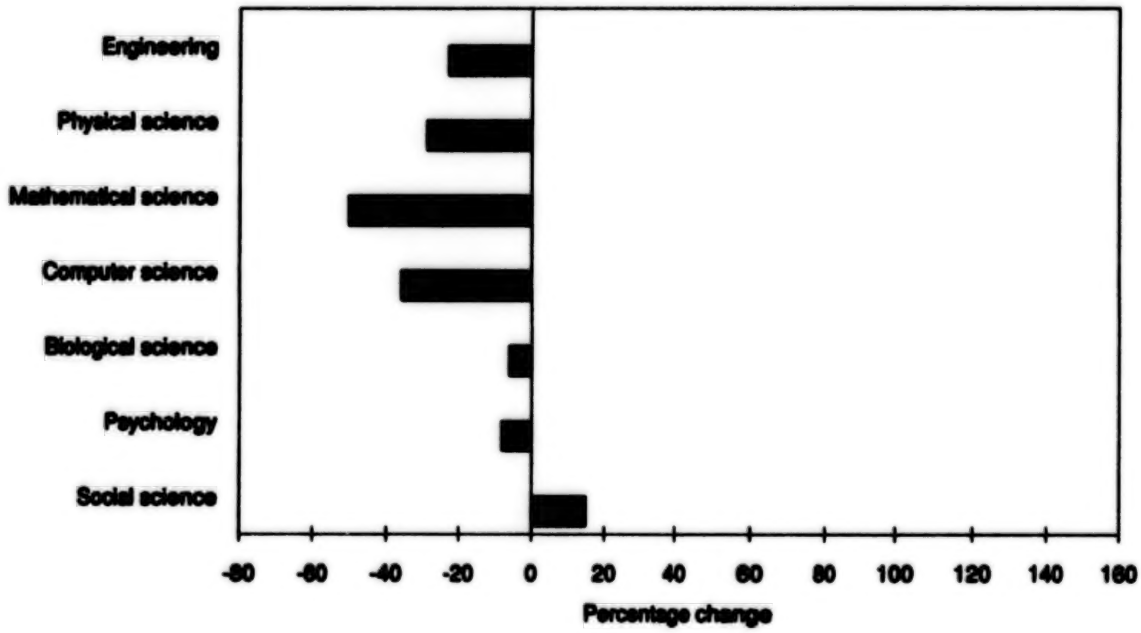
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 15. Percentage change in science and engineering bachelor's degrees awarded to Hispanic males, by field: 1985-91



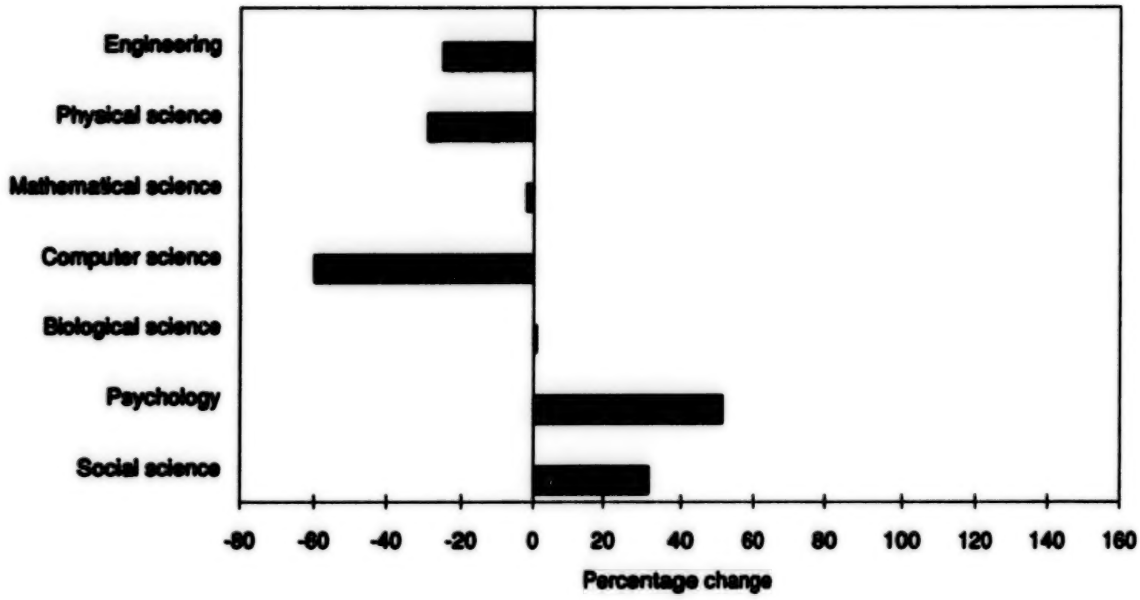
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 16. Percentage change in science and engineering bachelor's degrees awarded to American Indian males, by field: 1985-91



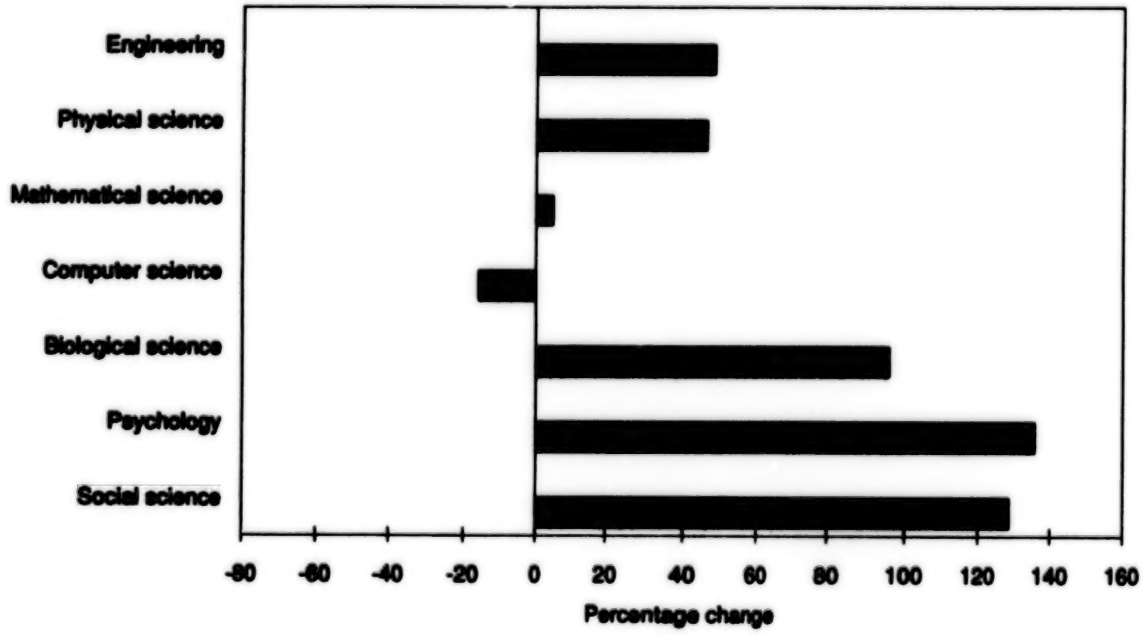
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 17. Percentage change in science and engineering bachelor's degrees awarded to white females, by field: 1985-91



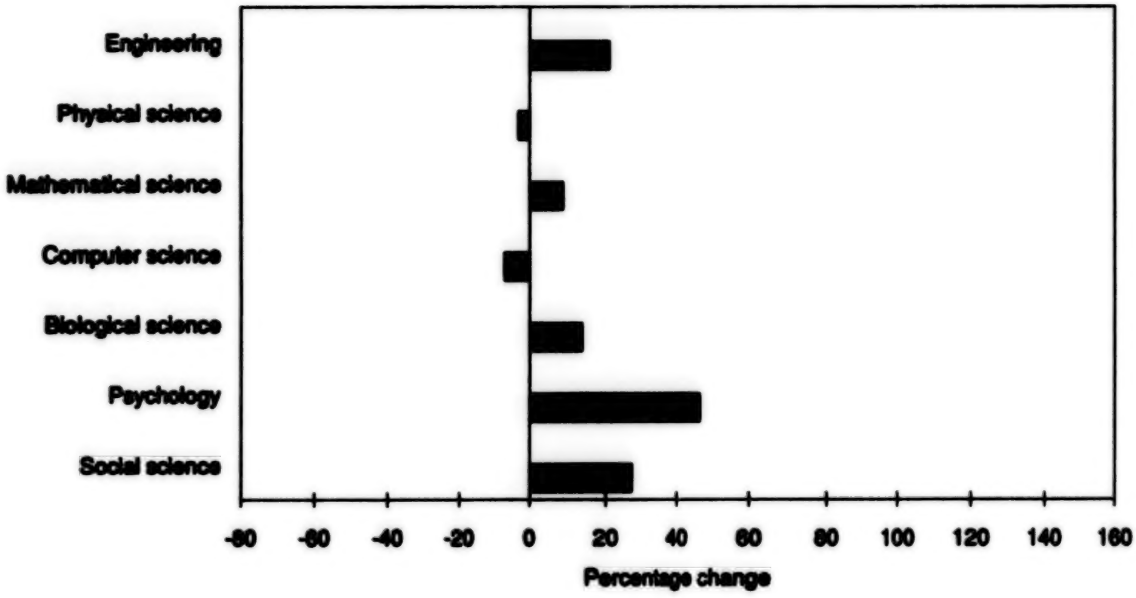
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 18. Percentage change in science and engineering bachelor's degrees awarded to Asian females, by field: 1985-91



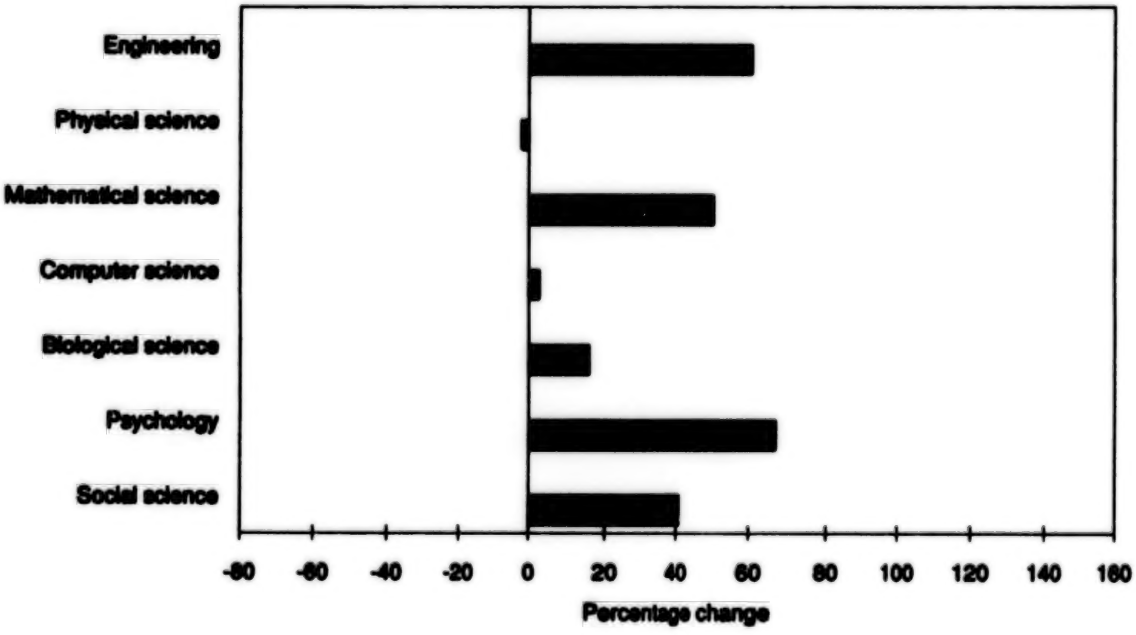
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 19. Percentage change in science and engineering bachelor's degrees awarded to black females, by field: 1985-91



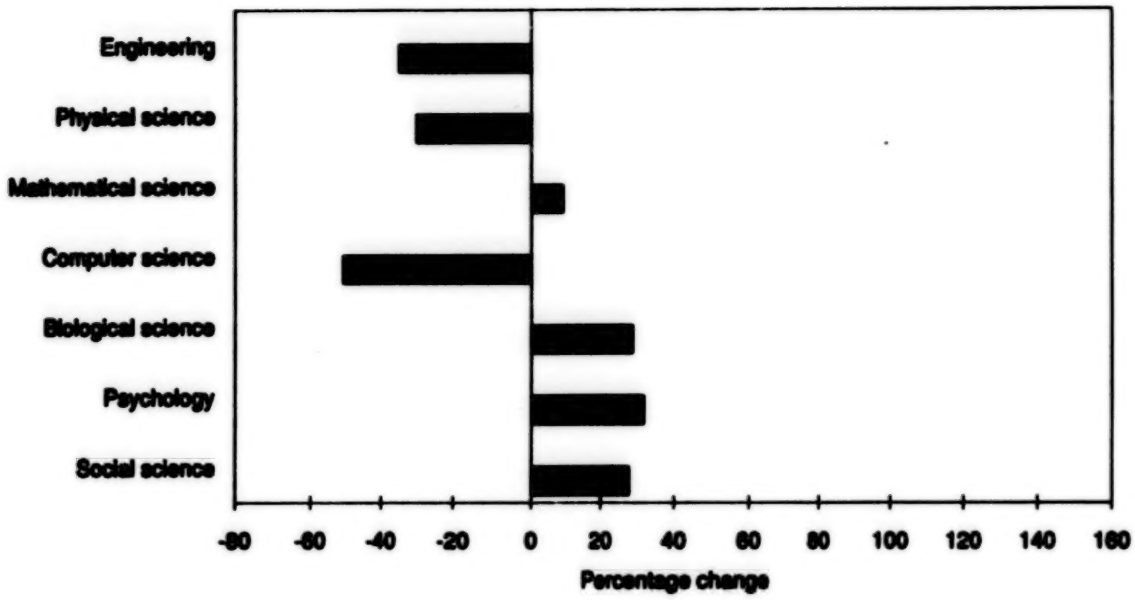
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 20. Percentage change in science and engineering bachelor's degrees awarded to Hispanic females, by field: 1985-91



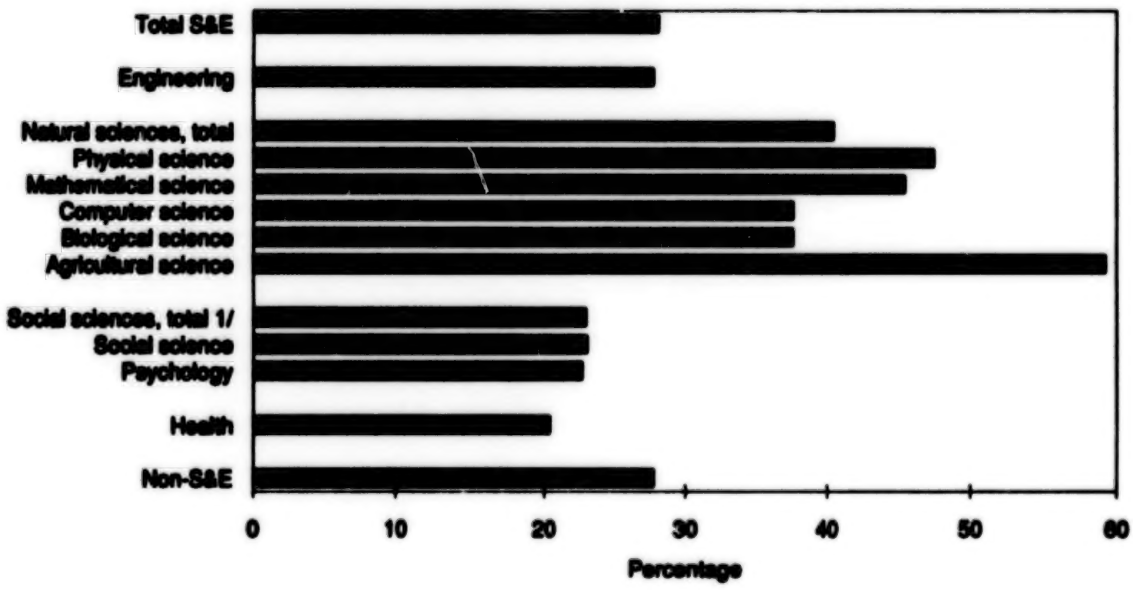
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 21. Percentage change in science and engineering bachelor's degrees awarded to American Indian females, by field: 1985-91



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

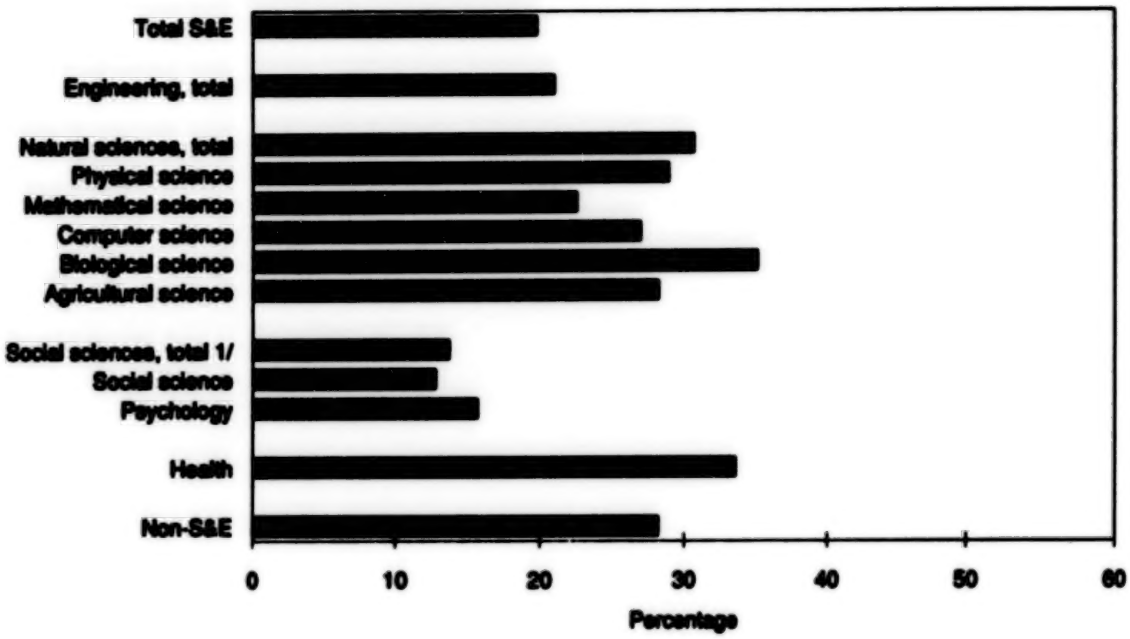
Chart 22. Percentage of science and engineering (S&E) bachelor's degrees awarded to blacks by historically black colleges and universities, by field and total non-S&E bachelor's degrees: 1991



1/ "Social sciences, total" includes the fields of Area and Ethnic Studies, Public Affairs, Social Sciences, and Psychology.

SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, IPEDS Completions survey, 1991

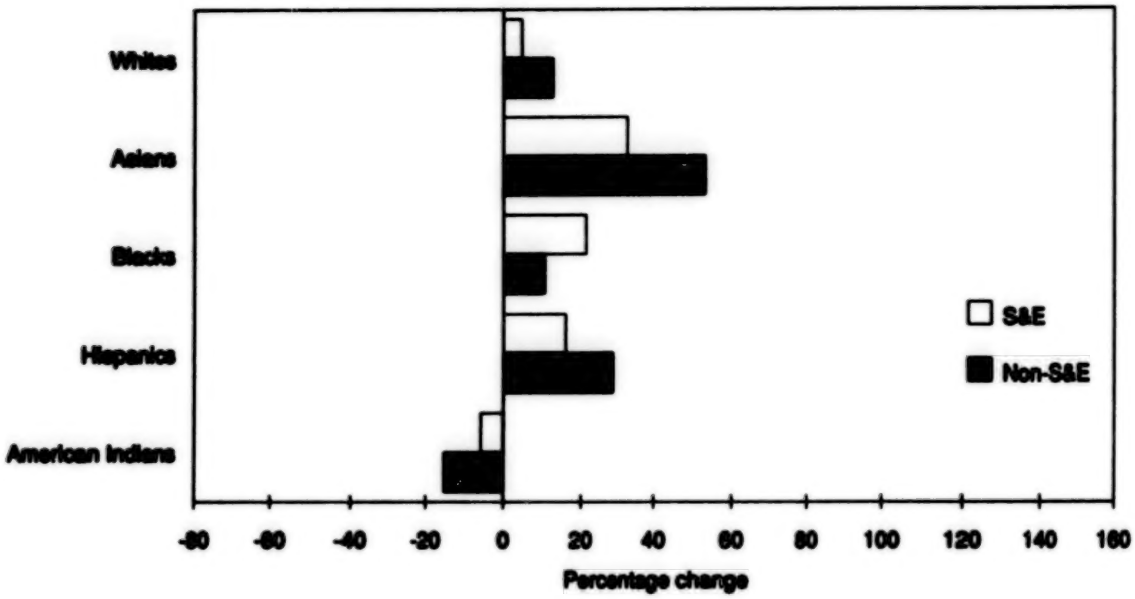
Chart 23. Percentage of science and engineering (S&E) bachelor's degrees awarded to Hispanics by institutions in Puerto Rico, by field and total non-S&E bachelor's degrees: 1991



1/ "Social sciences, total" includes the fields of Area and Ethnic Studies, Public Affairs, Social Sciences, and Psychology.

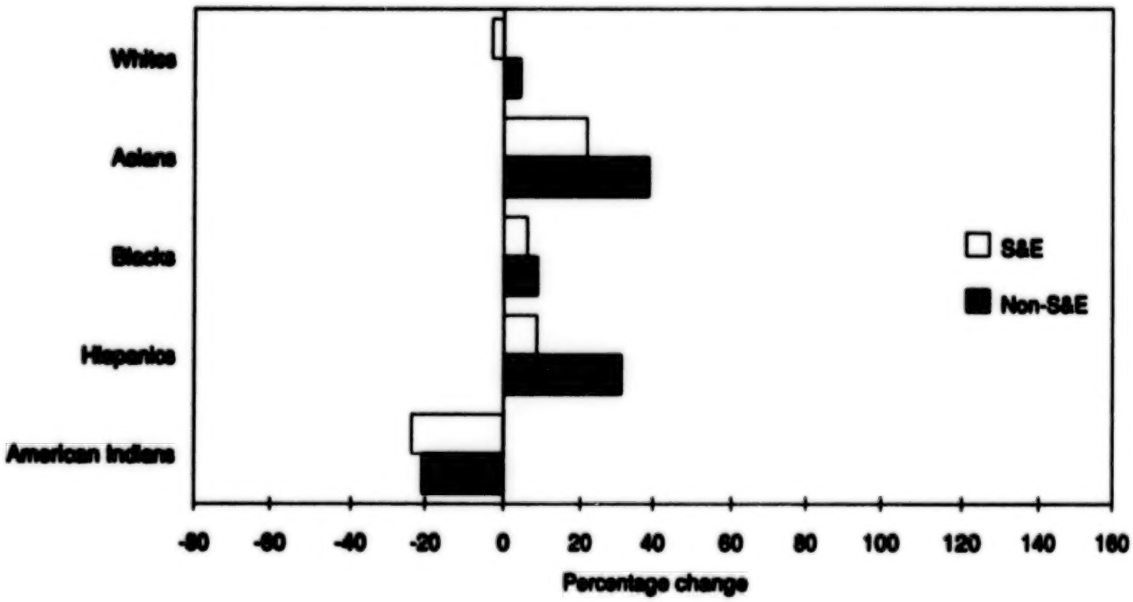
SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, IPEDS Completions survey, 1991

Chart 24. Percentage change in science and engineering (S&E) and non-S&E master's degree awards, by race/ethnicity: 1985-91



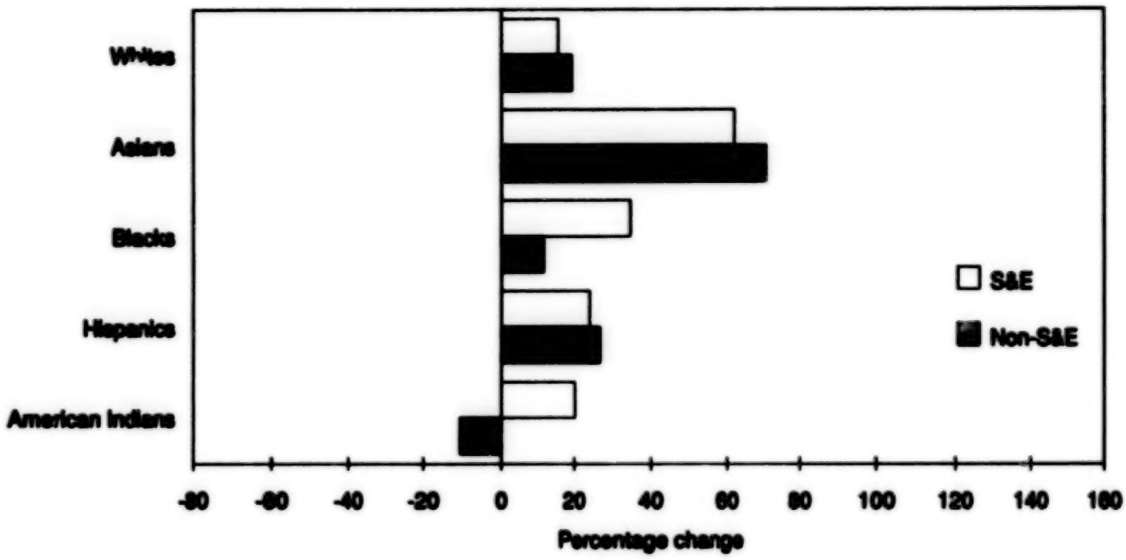
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 25. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to males, by race/ethnicity: 1985-91



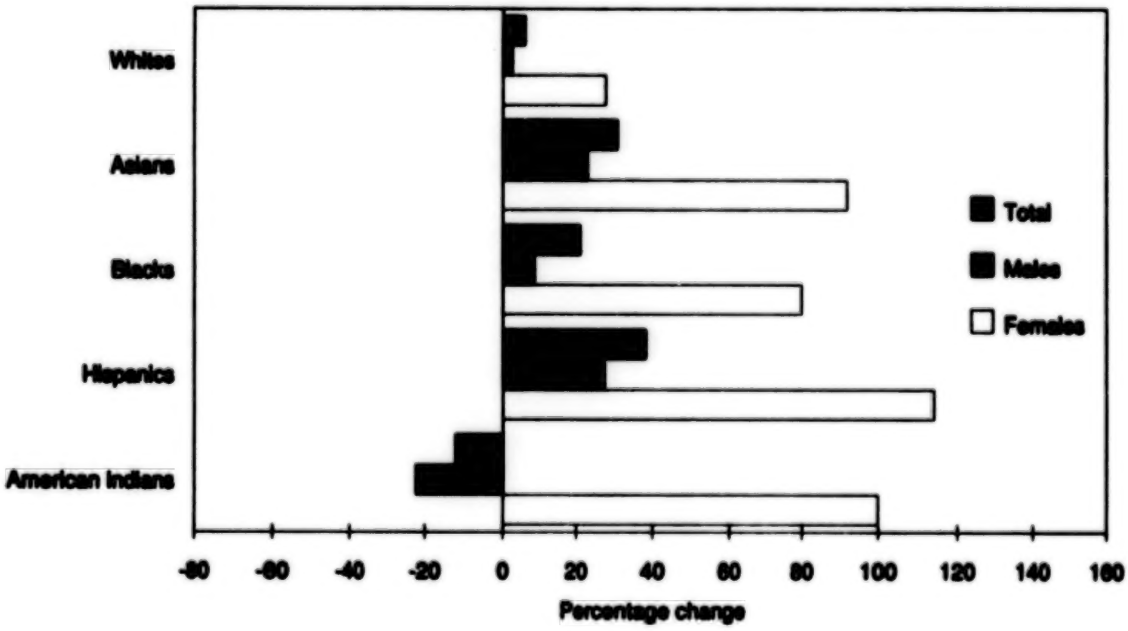
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 26. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to females, by race/ethnicity: 1985-91



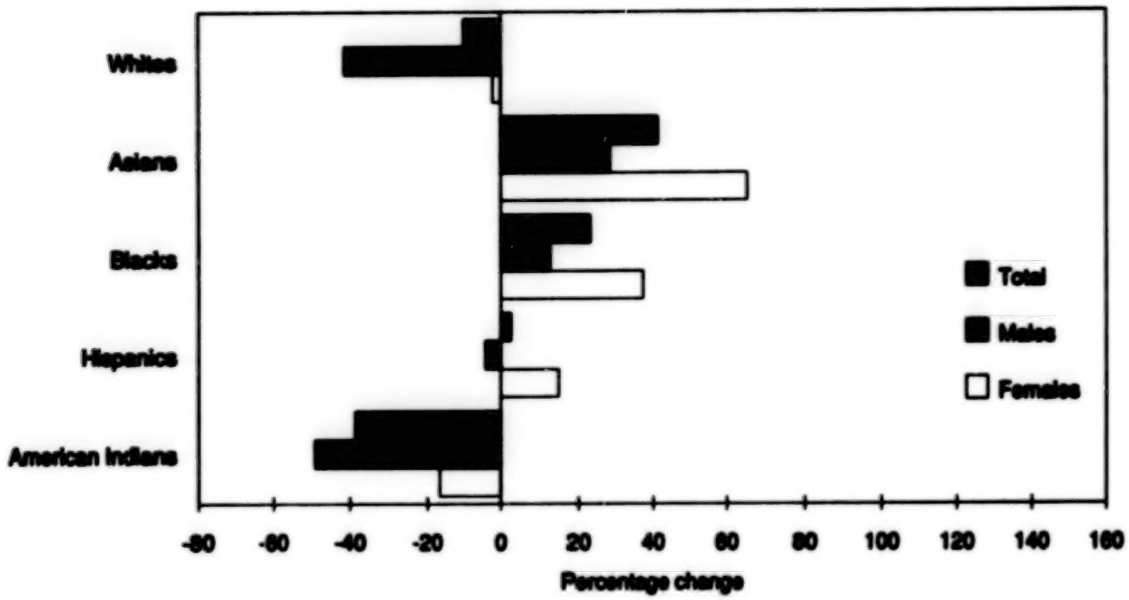
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 27. Percentage change in engineering master's degree awards, by sex and race/ethnicity: 1985-91



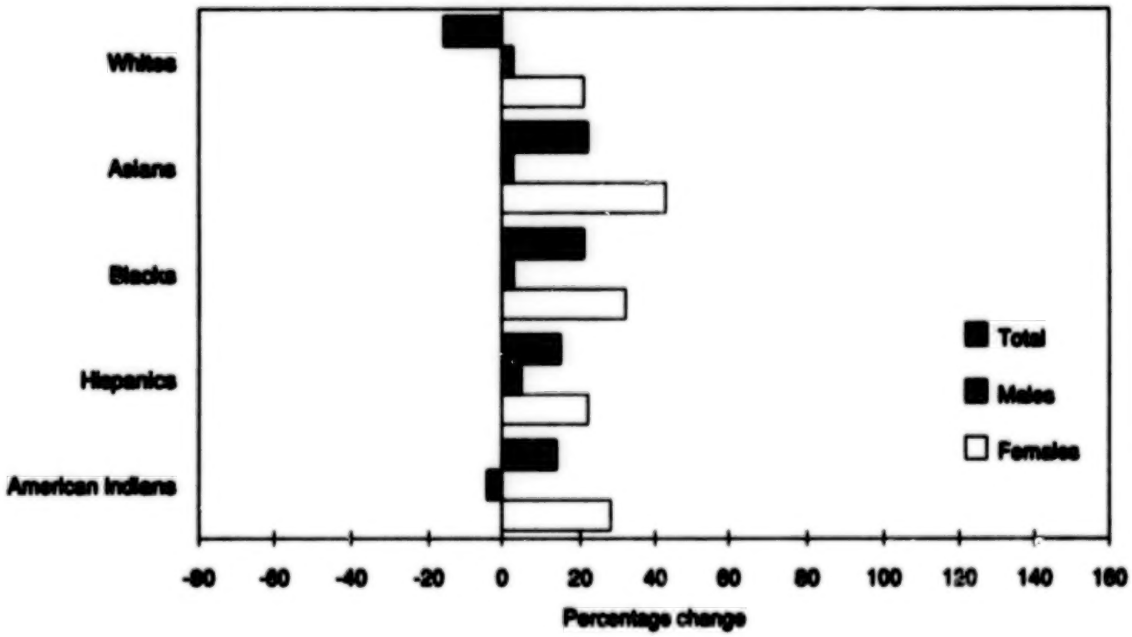
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 28. Percentage change in natural science master's degree awards, by sex and race/ethnicity: 1985-91



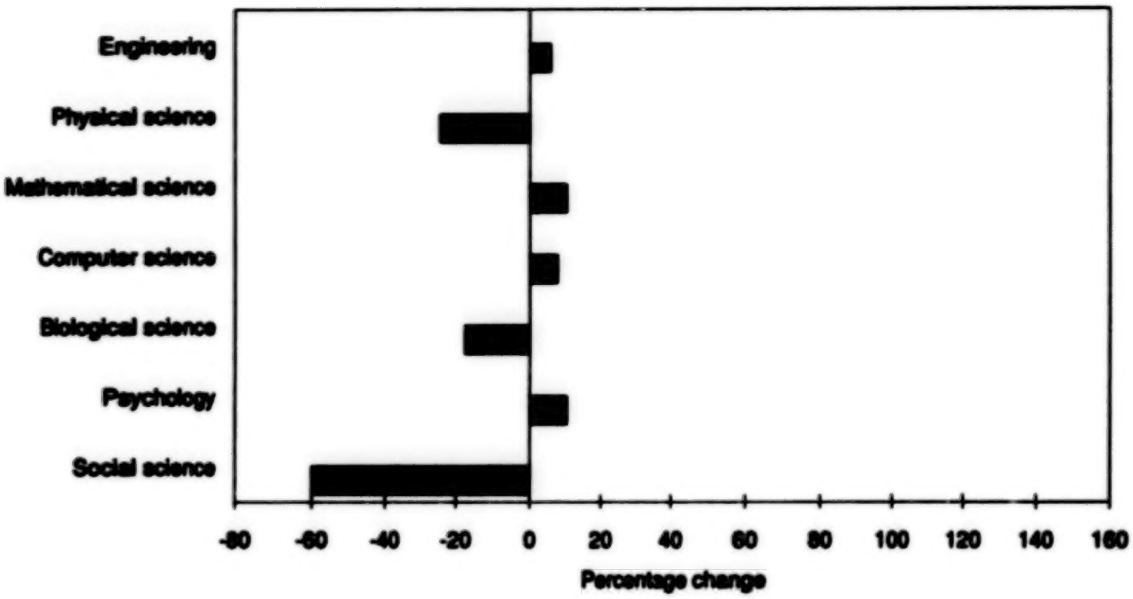
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 29. Percentage change in social sciences master's degree awards, by sex and race/ethnicity: 1985-91



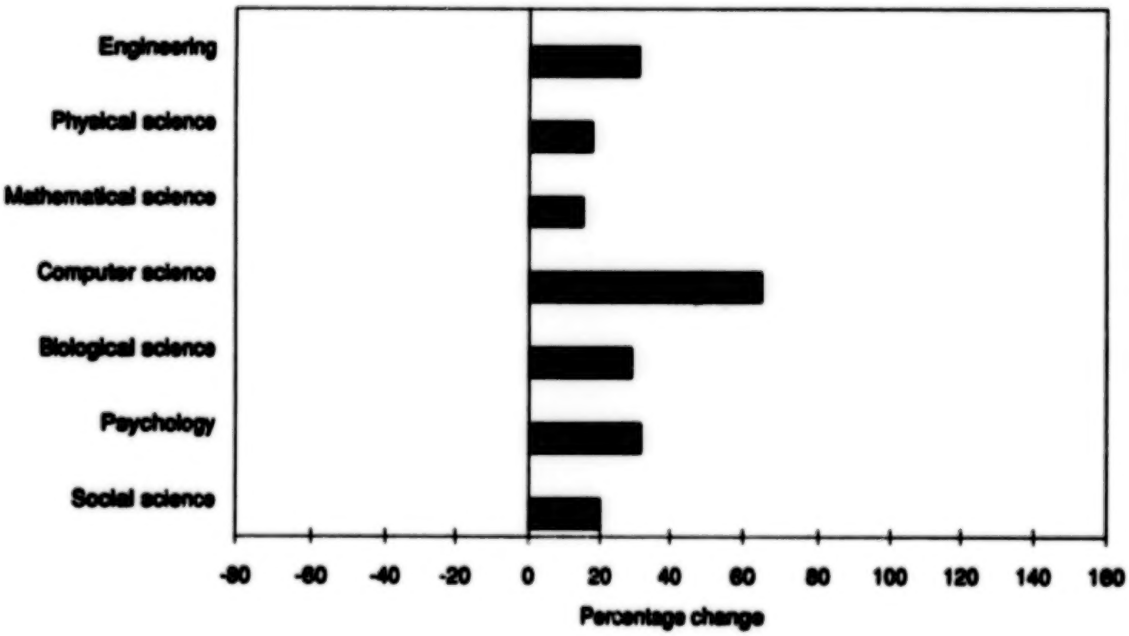
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 30. Percentage change in science and engineering master's degrees awarded to whites, by field: 1985-91



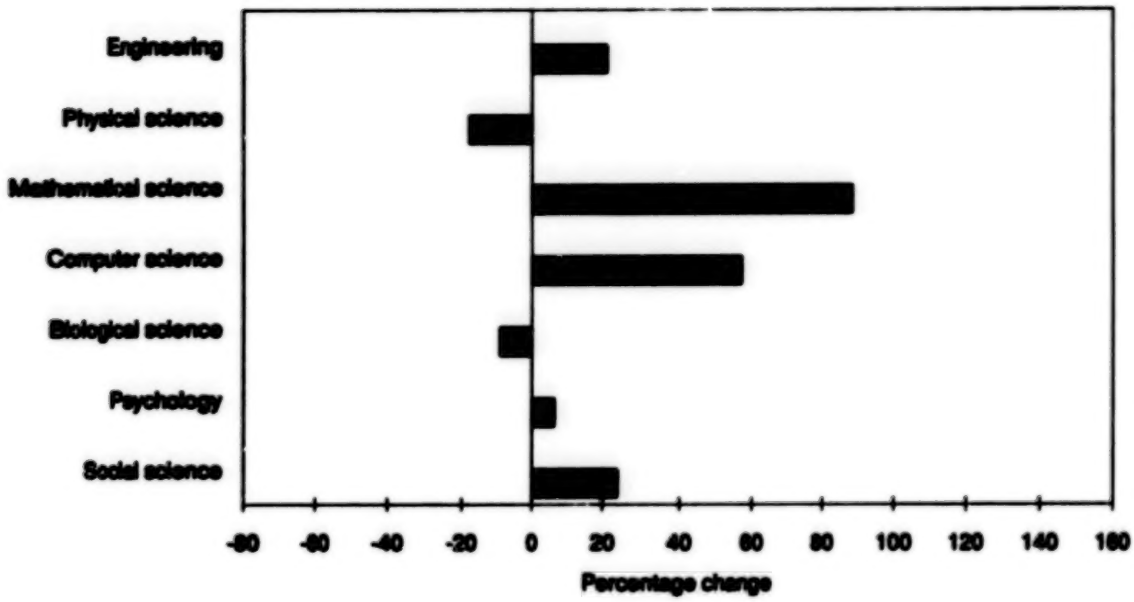
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 31. Percentage change in science and engineering master's degrees awarded to Asians, by field: 1985-91



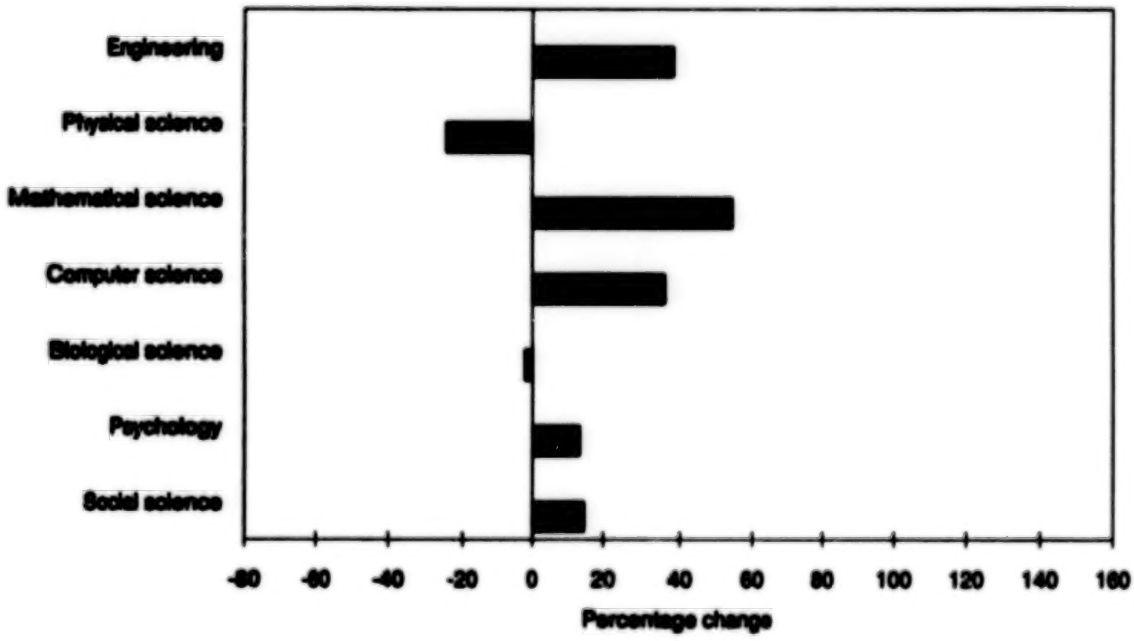
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 32. Percentage change in science and engineering master's degrees awarded to blacks, by field: 1985-91



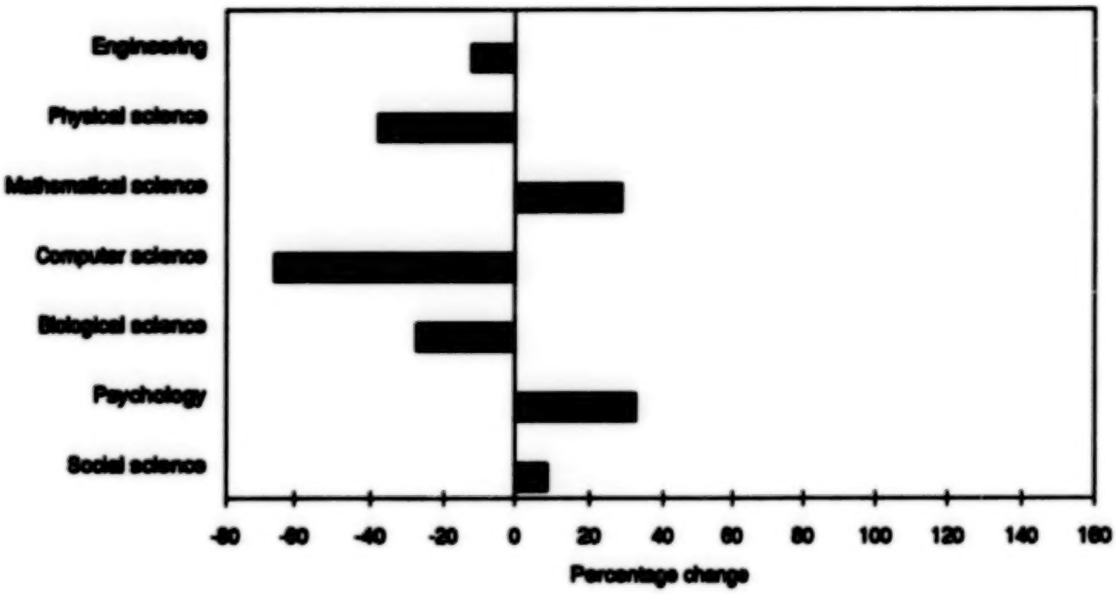
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 33. Percentage change in science and engineering master's degrees awarded to Hispanics, by field: 1985-91



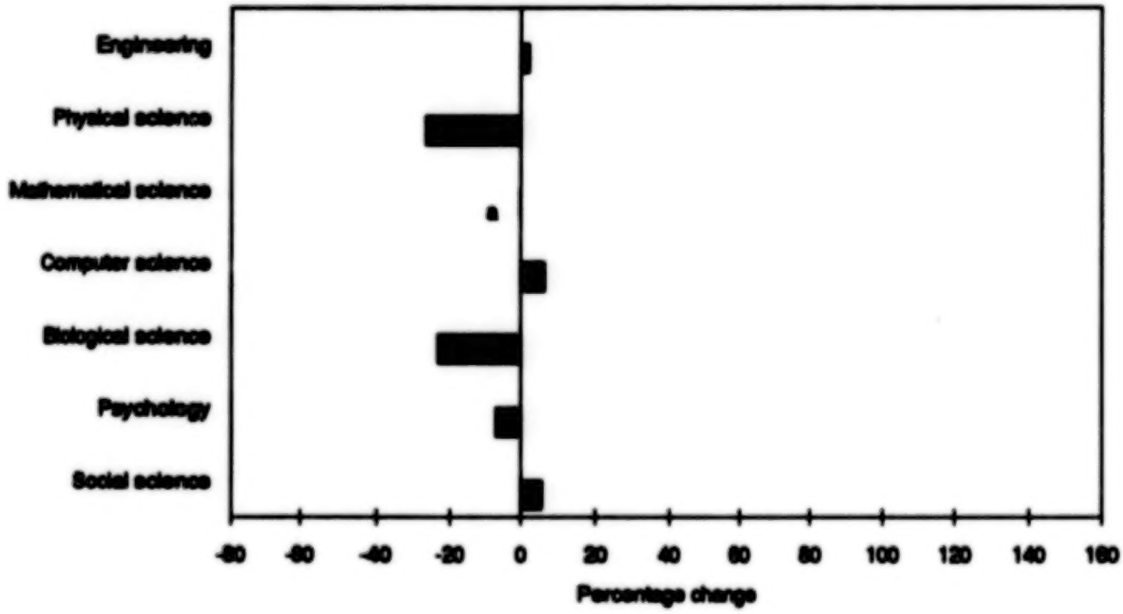
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 34. Percentage change in science and engineering master's degrees awarded to American Indians, by field: 1985-91



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

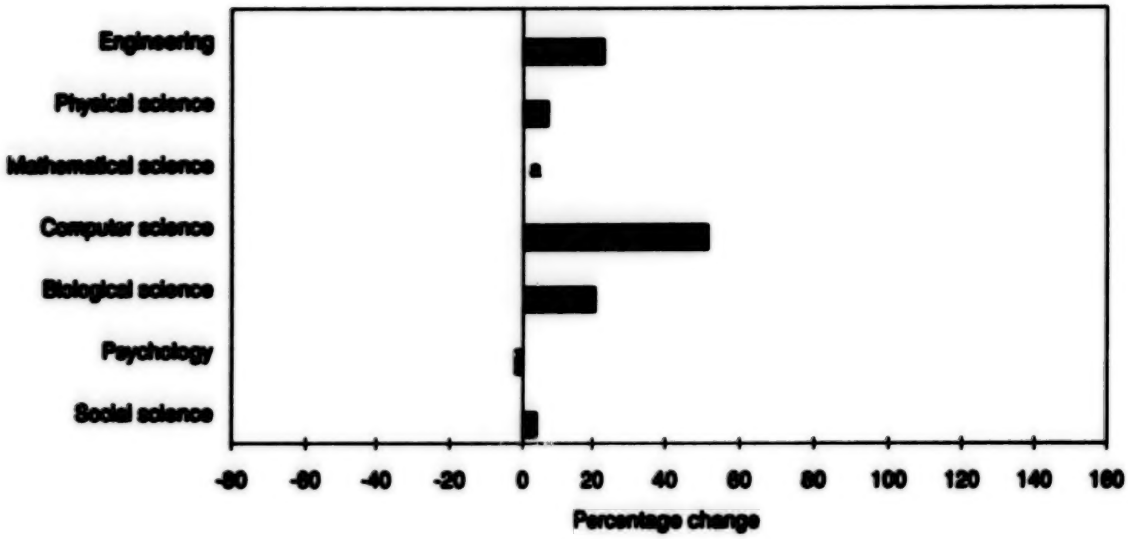
Chart 35. Percentage change in science and engineering master's degrees awarded to white males, by field: 1985-91



KEY: a = A change of less than 1 percent

SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

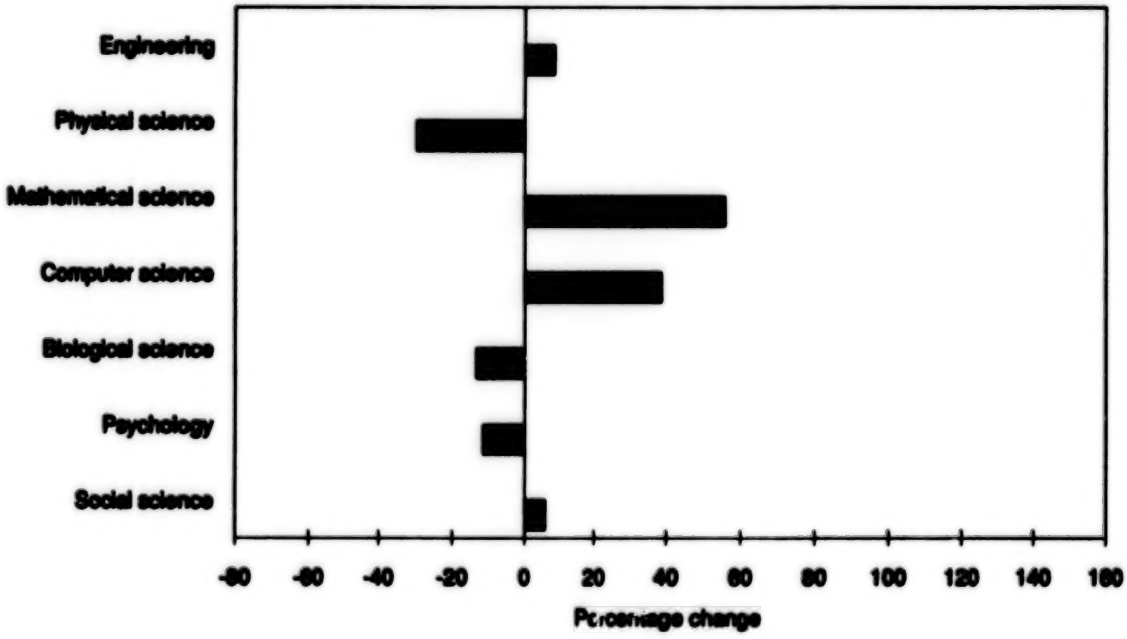
Chart 36. Percentage change in science and engineering master's degrees awarded to Asian males, by field: 1985-91



KEY: a = A change of 0 percent

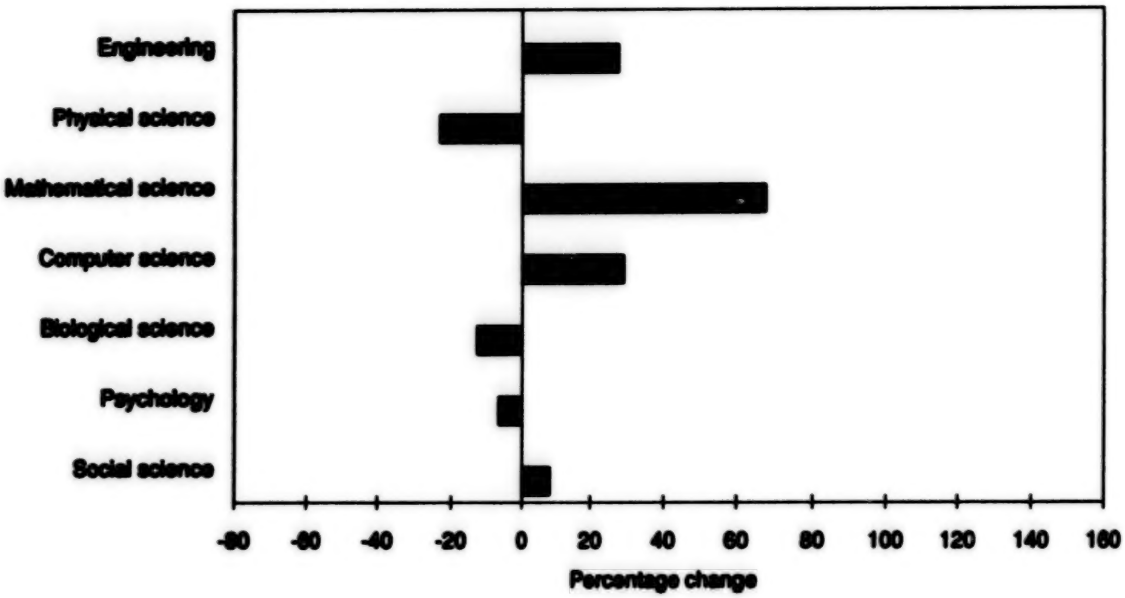
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 37. Percentage change in science and engineering master's degrees awarded to black males, by field: 1985-91



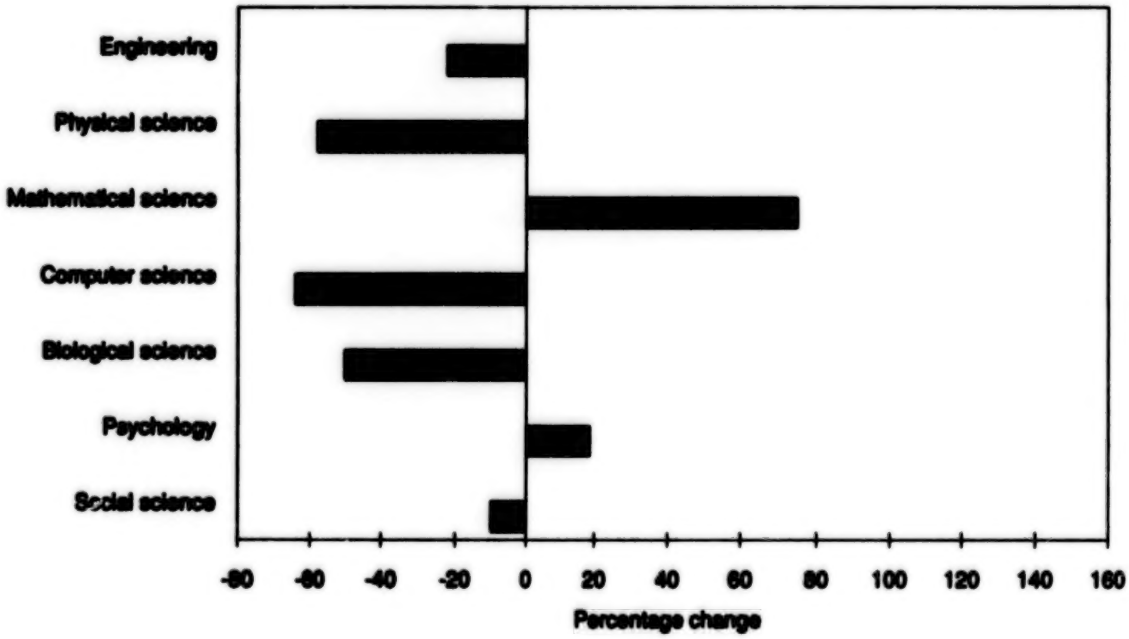
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 38. Percentage change in science and engineering master's degrees awarded to Hispanic males, by field: 1985-91



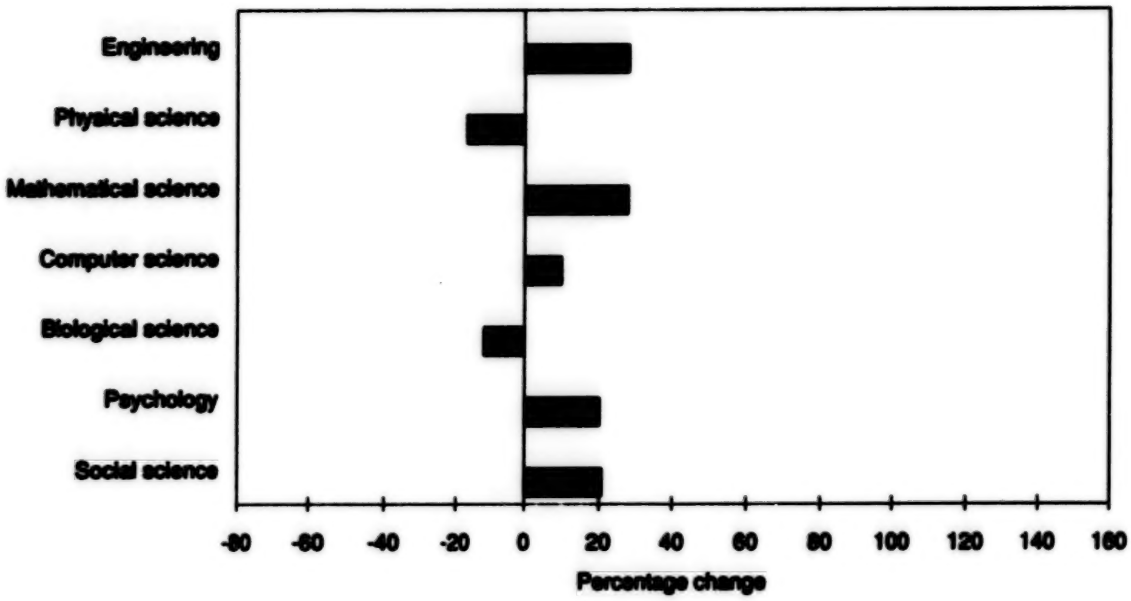
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 39. Percentage change in science and engineering master's degrees awarded to American Indian males, by field: 1985-91



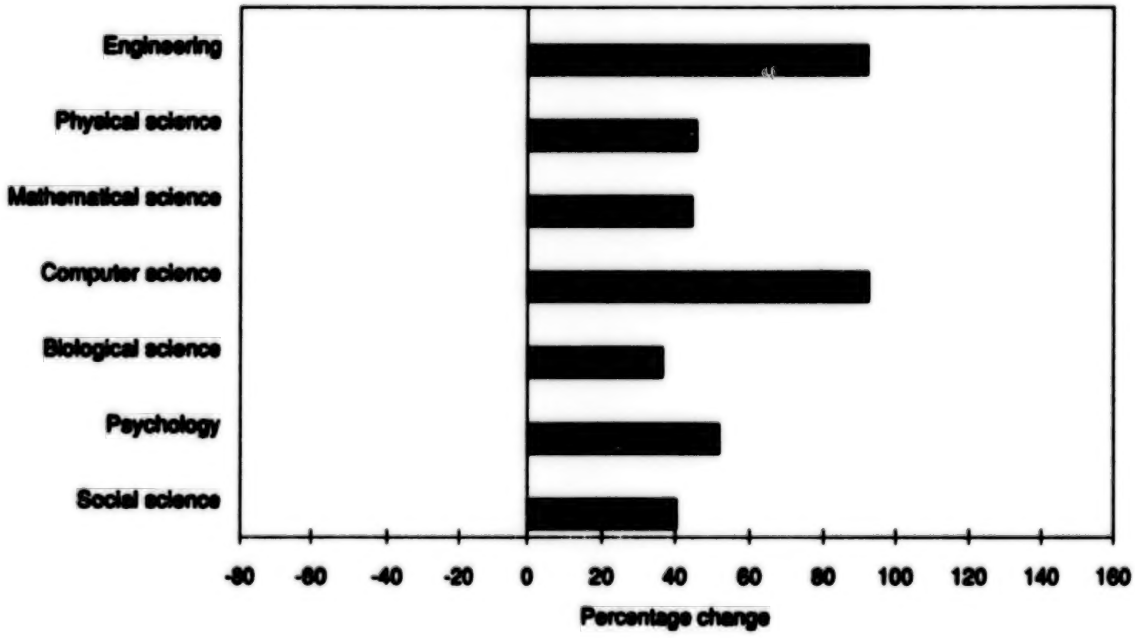
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 40. Percentage change in science and engineering master's degrees awarded to white females, by field: 1985-91



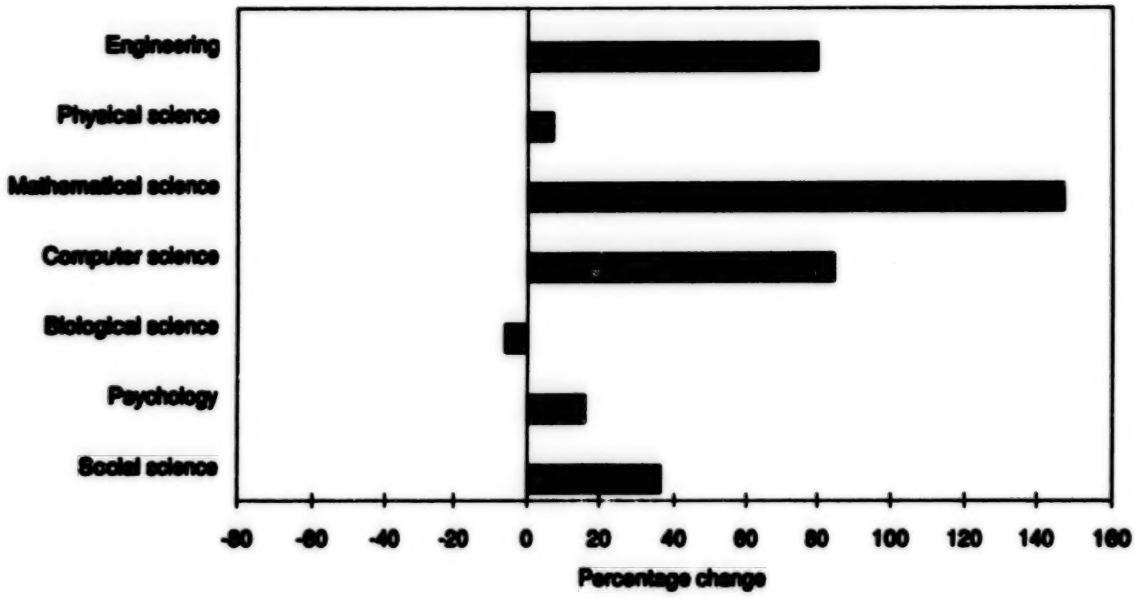
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 41. Percentage change in science and engineering master's degrees awarded to Asian females, by field: 1985-91



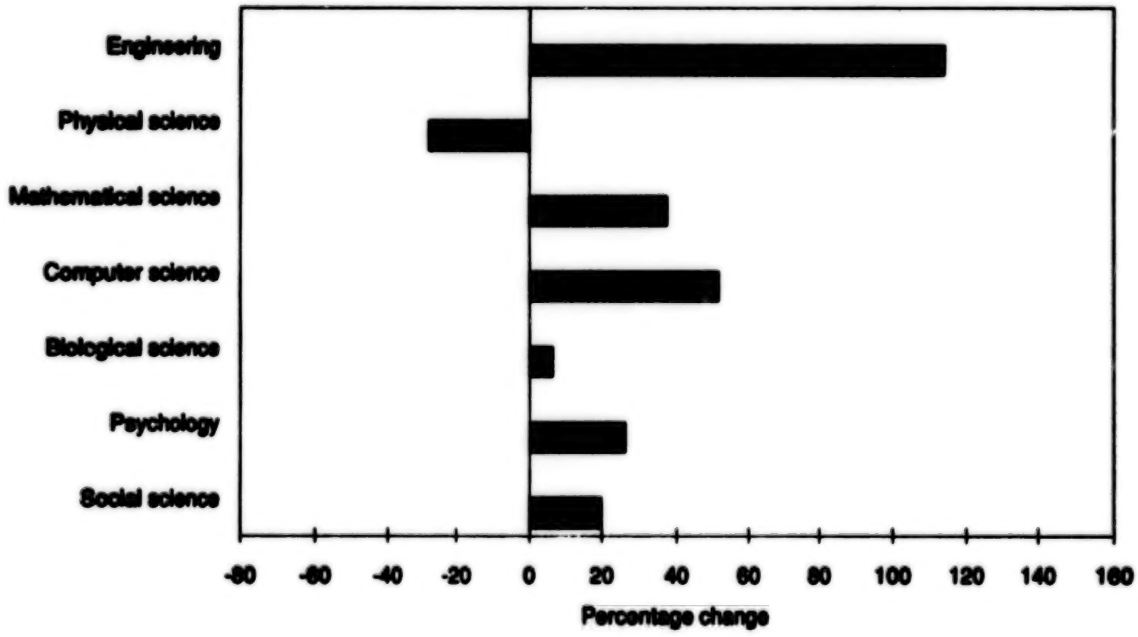
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 42. Percentage change in science and engineering master's degrees awarded to black females, by field: 1985-91



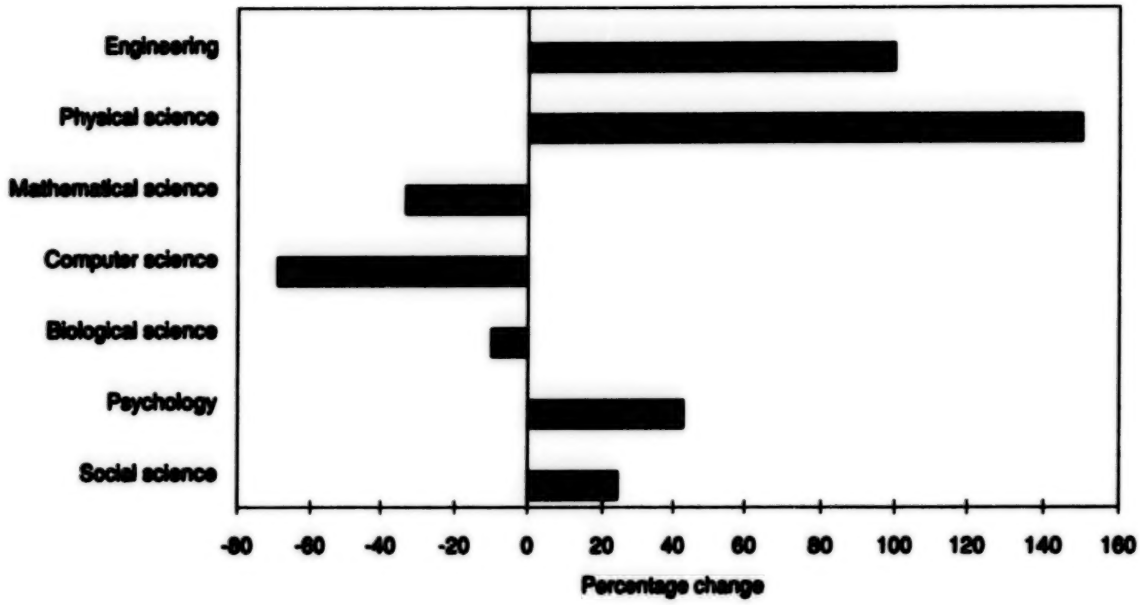
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 43. Percentage change in science and engineering master's degrees awarded to Hispanic females, by field: 1985-91



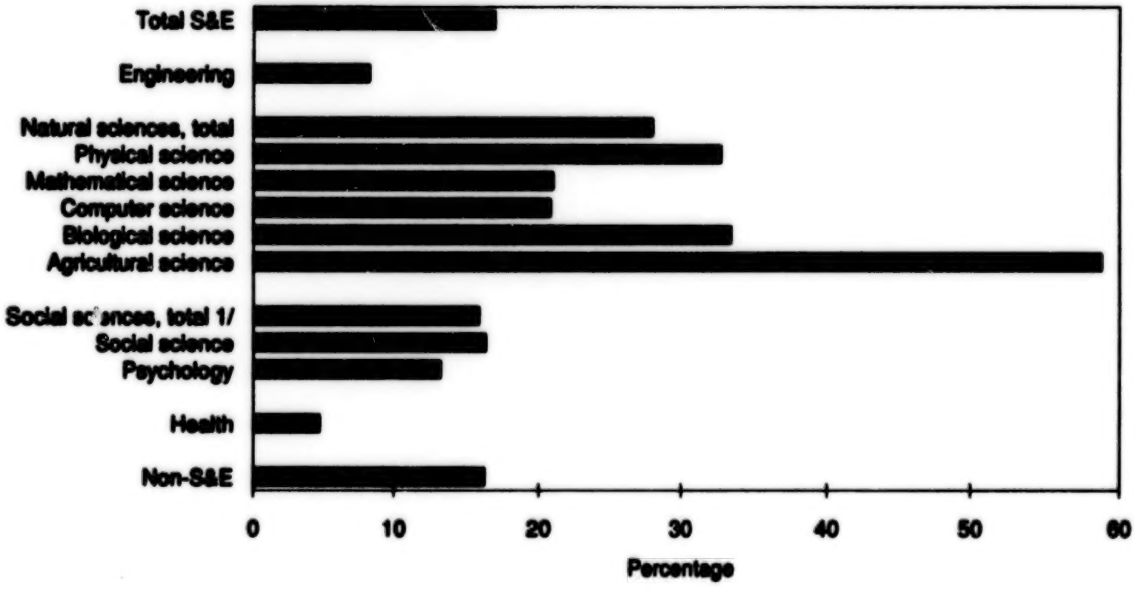
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

Chart 44. Percentage change in science and engineering master's degrees awarded to American Indian females, by field: 1985-91



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics: biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions surveys, 1987-91

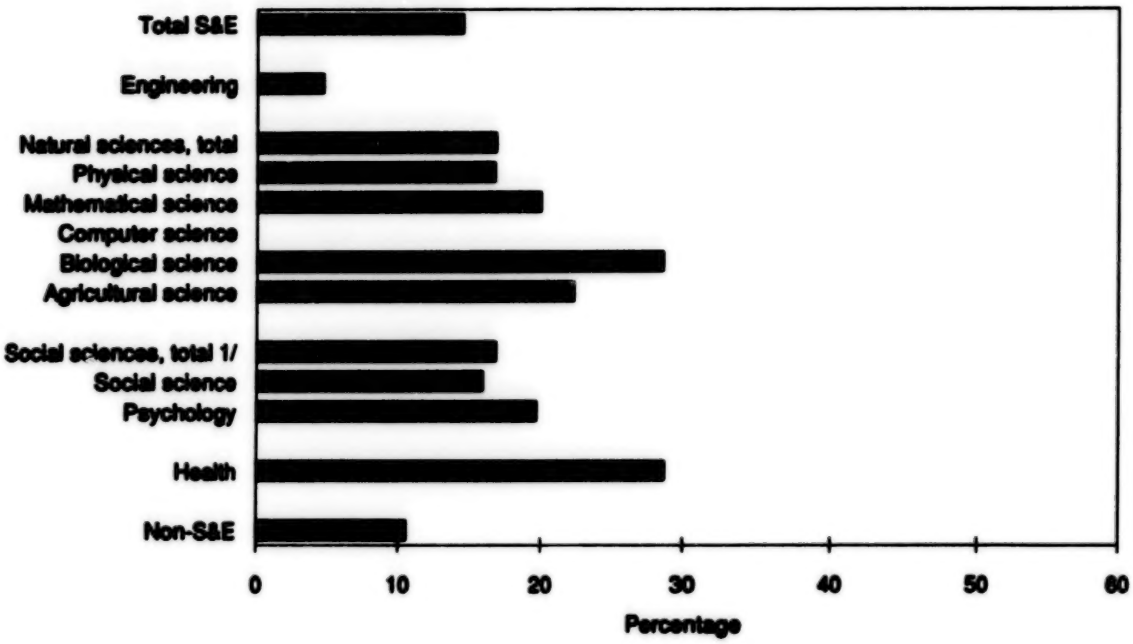
Chart 45. Percentage of science and engineering (S&E) master's degrees awarded to blacks by historically black colleges and universities, by field and total non-S&E master's degrees: 1991



1/ "Social sciences, total" includes the fields of Area and Ethnic Studies, Public Affairs, Social Sciences, and Psychology.

SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, IPEDS Completions survey, 1991

Chart 46. Percentage of science and engineering (S&E) master's degrees awarded to Hispanics by institutions in Puerto Rico, by field and total non-S&E master's degrees: 1991



1/ "Social sciences, total" includes the fields of Area and Ethnic Studies, Public Affairs, Social Sciences, and Psychology.

SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, IPEDS Completions survey, 1991

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Table 1. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	374,579	373,431	374,893	375,788	376,450	371,248	379,392	389,962
Engineering 1/	49,677	62,800	75,395	98,104	95,000	87,045	83,853	80,490
Sciences	324,902	310,631	299,298	277,682	281,450	284,203	295,539	309,472
Natural sciences	119,071	116,858	116,880	130,068	125,371	109,360	105,234	105,895
Physical science	22,618	23,363	24,175	23,847	20,155	17,329	16,209	16,407
Mathematical science	14,303	11,901	11,173	15,267	16,515	15,314	14,674	14,784
Computer science	6,428	8,769	15,233	39,121	39,927	30,993	27,895	25,410
Biological science	54,193	49,576	44,046	39,405	39,047	36,949	38,040	40,351
Agricultural science	21,531	23,247	22,033	12,418	9,727	8,795	8,622	8,943
Social sciences 2/	205,831	193,775	182,638	147,624	156,079	174,853	190,305	203,577
Social science	158,037	150,763	141,274	107,387	112,884	125,899	136,287	144,994
Psychology	47,794	43,012	41,364	40,237	43,195	48,954	54,018	58,583
Health fields	57,845	62,723	64,673	51,239	51,455	47,369	47,112	47,589
Non-S&E 3/	495,804	495,188	507,511	563,852	575,627	611,534	635,847	670,457
Grand total	928,228	931,340	946,877	990,877	1,003,532	1,030,171	1,062,151	1,107,987
	White, non-Hispanics							
Total science and engineering	323,845	318,819	313,498	307,081	298,129	293,262	298,140	303,532
Engineering 1/	42,072	52,851	60,898	77,885	73,032	66,237	62,745	59,441
Sciences	281,773	266,168	252,630	229,396	225,097	227,025	233,395	244,091
Natural sciences	106,418	103,036	100,791	107,076	98,344	84,578	80,210	80,111
Physical science	20,417	20,958	21,249	20,541	16,853	14,238	13,055	13,145
Mathematical science	12,602	10,229	9,447	12,163	13,285	12,287	11,785	11,649
Computer science	5,508	7,404	12,588	31,321	29,181	21,711	18,918	17,349
Biological science	47,695	42,745	37,292	31,818	30,549	28,404	28,814	30,284
Agricultural science	20,198	21,700	20,237	11,233	8,898	7,938	7,858	7,704
Social sciences 2/	175,355	163,132	151,839	122,320	128,753	142,447	153,185	163,980
Social science	133,881	128,484	117,121	88,361	90,992	101,941	109,049	115,846
Psychology	41,494	36,648	34,718	33,959	35,761	40,506	44,136	48,134
Health fields	51,551	55,751	58,791	43,152	42,824	39,103	37,779	38,202
Non-S&E 3/	432,461	428,095	437,232	476,143	478,524	507,981	522,767	560,629
Grand total	807,857	802,865	807,509	828,356	819,477	840,328	858,686	892,363
	Asians							
Total science and engineering	6,558	7,591	9,572	13,996	17,921	20,222	20,453	21,628
Engineering 1/	1,211	1,858	3,086	5,024	6,397	6,914	6,767	6,988
Sciences	5,347	5,733	6,508	8,972	11,524	13,308	13,686	14,640
Natural sciences	2,414	2,814	3,467	5,809	7,130	7,280	7,328	7,595
Physical science	377	439	599	763	894	922	937	983
Mathematical science	316	324	392	885	1,034	1,019	874	915
Computer science	163	263	669	2,044	2,455	2,288	2,144	2,010
Biological science	1,316	1,484	1,493	1,952	2,565	2,907	3,245	3,589
Agricultural science	242	324	314	165	182	144	128	128
Social sciences 2/	2,933	2,919	3,039	3,163	4,394	6,048	6,380	7,045
Social science	2,126	2,138	2,196	2,318	3,240	4,473	4,730	5,160
Psychology	807	781	843	845	1,154	1,575	1,630	1,885
Health fields	1,020	1,087	1,312	1,025	1,283	1,429	1,516	1,675
Non-S&E 3/	6,329	6,864	8,024	10,541	12,737	15,922	16,058	18,422
Grand total	13,907	15,542	18,908	25,562	31,921	37,573	38,027	41,725

See explanatory information and SOURCES at end of table.

Table 1. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	35,504	38,898	38,304	35,199	35,557	36,758	38,439	41,785
Engineering 1/	2,810	3,494	4,464	6,340	7,090	6,752	6,782	6,986
Sciences	32,694	33,404	33,840	28,859	28,467	30,006	31,657	34,799
Natural sciences	7,574	8,177	8,915	10,879	11,607	10,830	10,530	10,960
Physical science	1,244	1,282	1,593	1,588	1,480	1,322	1,245	1,355
Mathematical science	1,059	981	878	1,164	1,207	1,218	1,178	1,334
Computer science	460	725	1,220	3,327	4,307	3,742	3,416	3,292
Biological science	4,131	4,485	4,358	4,277	4,180	4,151	4,243	4,551
Agricultural science	650	744	888	523	433	397	448	428
Social sciences 2/	25,120	25,227	24,925	17,980	16,860	19,176	21,127	23,839
Social science	20,124	20,095	19,608	13,378	12,527	14,073	15,361	17,170
Psychology	4,996	5,132	5,317	4,602	4,333	5,103	5,766	6,669
Health fields	4,829	5,285	5,988	5,355	5,289	5,230	5,595	5,618
Non-S&E 3/	48,938	51,247	53,197	57,846	58,339	60,177	63,343	71,119
Grand total	89,071	93,430	97,489	98,200	97,165	102,165	107,377	118,522
	Black, non-Hispanics							
Total science and engineering	23,134	23,324	23,767	20,223	20,224	20,481	21,274	23,170
Engineering 1/	1,385	1,775	2,449	3,316	3,584	3,275	3,272	3,456
Sciences	21,749	21,549	21,318	16,907	16,640	17,208	18,002	19,714
Natural sciences	4,469	4,700	4,932	6,009	6,524	6,005	5,782	5,834
Physical science	682	704	911	830	823	697	650	753
Mathematical science	712	652	585	770	834	792	720	811
Computer science	381	507	786	2,143	2,820	2,457	2,247	1,997
Biological science	2,415	2,491	2,270	2,047	1,890	1,918	1,994	2,111
Agricultural science	309	346	380	219	157	143	171	162
Social sciences 2/	17,280	16,849	16,386	10,898	10,116	11,201	12,220	13,880
Social science	14,039	13,631	13,078	8,231	7,665	8,458	9,070	10,192
Psychology	3,221	3,218	3,308	2,667	2,451	2,743	3,150	3,688
Health fields	3,136	3,380	3,803	3,082	3,086	3,159	3,320	3,432
Non-S&E 3/	32,430	33,597	33,359	34,258	31,813	33,197	34,707	38,407
Grand total	58,700	60,301	60,729	57,563	55,103	56,837	59,301	65,009
	Hispanics							
Total science and engineering	11,002	12,163	13,107	13,373	13,846	14,811	15,680	17,021
Engineering 1/	1,290	1,555	1,820	2,712	3,218	3,195	3,295	3,297
Sciences	9,712	10,608	11,287	10,661	10,628	11,616	12,385	13,724
Natural sciences	2,708	3,129	3,846	4,359	4,680	4,417	4,357	4,705
Physical science	484	495	617	660	585	563	522	533
Mathematical science	321	288	275	335	321	373	413	480
Computer science	114	207	413	1,045	1,375	1,195	1,085	1,215
Biological science	1,559	1,825	1,951	2,089	2,146	2,090	2,119	2,264
Agricultural science	228	314	390	250	233	198	218	213
Social sciences 2/	7,006	7,479	7,841	6,302	5,988	7,199	8,028	9,019
Social science	5,398	5,742	5,828	4,568	4,288	5,047	5,623	6,273
Psychology	1,608	1,737	1,813	1,734	1,702	2,152	2,405	2,746
Health fields	1,339	1,699	2,176	2,088	1,985	1,879	2,070	1,970
Non-S&E 3/	14,702	15,857	17,894	20,952	22,365	24,671	26,114	30,038
Grand total	27,043	29,719	33,167	36,391	38,196	41,361	43,864	49,027

See explanatory information and SOURCES at end of table.

Table 1. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	1,368	1,411	1,430	1,603	1,487	1,466	1,485	1,594
Engineering 1/	135	164	195	312	288	282	215	233
Sciences	1,233	1,247	1,235	1,291	1,199	1,184	1,270	1,361
Natural sciences	379	348	337	511	423	408	391	421
Physical science	68	63	65	98	72	62	73	69
Mathematical science	26	41	18	59	52	53	45	43
Computer science	15	11	21	139	112	90	84	80
Biological science	157	149	137	161	144	145	130	176
Agricultural science	113	84	96	54	43	58	59	53
Social sciences 2/	854	899	898	780	776	776	879	940
Social science	687	722	702	579	596	568	668	705
Psychology	167	177	196	201	180	208	211	235
Health fields	154	206	209	207	218	192	205	216
Non-S&E 3/	1,806	1,793	1,954	2,436	2,161	2,309	2,522	2,676
Grand total	3,328	3,410	3,593	4,246	3,866	3,967	4,212	4,486
	U.S. citizens and permanent residents, total							
Total science and engineering	365,907	363,308	361,362	356,256	351,607	350,242	355,032	366,945
Engineering 1/	46,093	58,003	68,386	89,029	86,519	79,903	76,294	73,415
Sciences	319,814	305,305	292,976	267,227	265,088	270,339	278,738	293,530
Natural sciences	116,406	114,027	113,173	123,764	117,081	102,668	98,066	98,666
Physical science	22,038	22,659	23,441	22,892	19,027	16,482	15,237	15,483
Mathematical science	13,977	11,534	10,717	14,212	15,506	14,524	13,817	13,898
Computer science	6,161	8,392	14,455	36,692	35,943	27,721	24,478	22,651
Biological science	53,142	48,674	43,143	38,047	37,294	35,462	36,302	38,374
Agricultural science	21,088	22,768	21,417	11,921	9,311	8,479	8,232	8,260
Social sciences 2/	203,408	191,278	179,803	143,463	148,007	167,671	180,672	194,864
Social science	156,111	148,717	138,925	104,057	106,759	120,487	129,140	138,176
Psychology	47,297	42,561	40,878	39,406	41,248	47,184	51,532	56,688
Health fields	57,200	62,123	64,091	49,532	49,356	45,762	44,890	45,495
Non-S&E 3/	487,728	486,206	498,453	544,330	547,600	584,060	602,168	640,170
Grand total	910,835	911,637	923,906	950,118	948,563	980,064	1,002,090	1,052,610
	Nonresident aliens 4/							
Total science and engineering	8,486	10,039	13,282	15,526	14,824	13,138	13,216	13,591
Engineering 1/	3,574	4,764	6,963	7,467	6,875	5,731	5,644	5,294
Sciences	4,912	5,275	6,319	8,059	7,949	7,407	7,572	8,297
Natural sciences	2,625	2,802	3,484	5,011	5,019	4,422	4,326	4,556
Physical science	571	695	732	780	635	605	595	608
Mathematical science	318	365	456	763	655	543	524	578
Computer science	265	376	777	2,116	2,578	2,135	2,066	2,037
Biological science	1,028	887	903	915	862	873	867	1,083
Agricultural science	443	479	616	437	289	266	274	270
Social sciences 2/	2,287	2,473	2,835	3,048	2,930	2,985	3,246	3,741
Social science	1,818	2,028	2,349	2,505	2,436	2,474	2,721	3,050
Psychology	469	445	486	543	494	511	525	691
Health fields	645	600	582	637	612	582	605	761
Non-S&E 3/	6,613	7,214	8,767	13,095	13,156	12,737	12,732	15,305
Grand total	15,744	17,853	22,631	29,258	28,592	26,457	26,553	29,657

See explanatory information and SOURCES at end of table.

Table 1. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	186	84	49	4,004	10,019	7,868	11,144	9,416
Engineering 1/	10	33	46	1,608	1,606	1,411	1,915	1,771
Sciences	176	51	3	2,396	8,413	6,457	9,229	7,645
Natural sciences	40	27	3	1,283	3,271	2,280	2,842	2,373
Physical science	9	9	2	175	493	242	371	316
Mathematical science	8	2	0	292	354	247	333	308
Computer science	0	1	1	313	1,406	1,107	1,151	722
Biological science	23	15	0	443	891	614	871	914
Agricultural science	0	0	0	60	127	50	116	113
Social sciences 2/	136	24	0	1,113	5,142	4,197	6,387	5,272
Social science	108	18	0	825	3,689	2,938	4,426	3,758
Psychology	28	6	0	288	1,453	1,259	1,961	1,514
Health fields	0	0	0	1,070	1,487	1,045	1,817	1,332
Non-S&E 3/	1,463	1,766	291	6,427	14,871	14,737	20,747	14,982
Grand total	1,649	1,850	340	11,501	26,377	23,650	33,508	25,730

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 2. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	243,848	234,528	229,841	231,544	228,995	220,090	220,499	221,196
Engineering 1/	47,437	57,593	67,662	84,604	81,449	74,758	71,843	68,851
Sciences	196,411	176,935	162,179	146,940	147,546	145,332	148,656	152,345
Natural sciences	82,532	77,740	74,598	78,568	75,630	65,875	62,518	62,091
Physical science	18,067	18,076	18,195	17,149	14,422	12,157	11,109	11,199
Mathematical science	8,354	6,943	6,392	8,231	8,833	8,284	7,863	7,804
Computer science	4,867	6,308	10,280	24,690	28,039	21,418	19,321	17,898
Biological science	34,474	29,471	24,460	20,435	20,039	18,295	18,631	19,715
Agricultural science	16,750	16,944	15,269	8,063	6,298	5,741	5,594	5,477
Social sciences 2/	113,879	99,195	87,583	68,372	71,916	79,457	86,138	90,254
Social science	93,187	82,546	73,136	55,557	58,517	65,166	70,739	74,099
Psychology	20,692	16,649	14,447	12,815	13,399	14,291	15,399	16,155
Health fields	12,034	11,265	10,638	7,353	6,892	6,501	6,767	7,005
Non-S&E 3/	243,239	235,601	233,857	247,763	249,116	260,975	268,601	280,751
Grand total	499,121	481,394	474,336	486,660	485,003	487,566	495,867	508,952
	White, non-Hispanics							
Total science and engineering	213,044	202,684	193,757	190,428	183,042	175,681	173,[illegible]	174,002
Engineering 1/	40,181	48,218	54,460	67,078	62,948	57,357	54,212	51,511
Sciences	172,863	154,466	139,297	123,348	120,094	118,324	119,710	122,491
Natural sciences	74,408	69,431	65,174	65,695	60,575	52,132	48,848	48,304
Physical science	16,410	16,356	16,128	14,990	12,139	10,173	9,179	9,203
Mathematical science	7,384	6,024	5,423	6,509	7,050	6,598	6,253	6,119
Computer science	4,233	5,422	8,623	20,188	19,793	15,799	13,974	12,916
Biological science	30,728	25,874	21,092	16,809	15,965	14,377	14,488	15,174
Agricultural science	15,653	15,755	13,910	7,209	5,608	5,185	4,954	4,892
Social sciences 2/	98,455	85,035	74,123	57,653	59,519	66,192	70,862	74,187
Social science	80,184	70,684	61,902	46,784	48,350	54,279	58,230	60,910
Psychology	18,271	14,351	12,221	10,869	11,169	11,913	12,632	13,277
Health fields	10,654	9,994	9,276	5,957	5,555	5,222	5,370	5,388
Non-S&E 3/	214,522	205,593	203,233	208,813	207,940	217,849	221,732	231,355
Grand total	438,220	418,271	406,266	405,198	398,537	398,552	401,024	410,745
	Asians							
Total science and engineering	4,191	4,770	6,169	8,761	11,222	12,401	12,279	12,743
Engineering 1/	1,123	1,643	2,699	4,133	5,249	5,679	5,508	5,669
Sciences	3,068	3,127	3,470	4,628	5,973	6,722	6,773	7,074
Natural sciences	1,578	1,697	2,078	3,245	4,029	4,073	4,054	4,149
Physical science	280	320	413	504	598	628	592	608
Mathematical science	174	171	223	474	532	527	491	482
Computer science	118	172	410	1,158	1,490	1,420	1,335	1,268
Biological science	837	824	830	1,024	1,314	1,442	1,573	1,736
Agricultural science	169	210	202	85	95	58	63	57
Social sciences 2/	1,490	1,430	1,392	1,383	1,944	2,649	2,719	2,925
Social science	1,151	1,128	1,096	1,098	1,539	2,145	2,228	2,361
Psychology	339	302	296	285	405	504	491	564
Health fields	296	282	299	241	257	331	314	395
Non-S&E 3/	3,193	3,267	3,682	4,631	5,425	6,471	6,504	7,635
Grand total	7,680	8,319	10,150	13,633	16,904	19,203	19,097	20,773

See explanatory information and SOURCES at end of table.

Table 2. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	19,555	18,836	19,014	17,681	17,848	17,947	18,337	19,362
Engineering 1/	2,654	3,137	3,849	5,087	5,527	5,239	5,307	5,346
Sciences	16,901	15,699	15,165	12,594	12,321	12,708	13,030	14,016
Natural sciences	4,528	4,516	4,815	5,515	5,699	5,411	5,043	5,226
Physical science	908	832	1,082	963	855	771	655	755
Mathematical science	552	501	447	601	627	636	614	657
Computer science	321	422	681	1,694	2,111	2,013	1,797	1,758
Biological science	2,198	2,197	1,973	1,892	1,818	1,734	1,685	1,799
Agricultural science	549	564	632	365	288	257	292	257
Social sciences 2/	12,375	11,183	10,350	7,079	6,622	7,297	7,987	8,790
Social science	10,519	9,376	8,610	5,711	5,385	5,960	6,438	7,085
Psychology	1,856	1,807	1,740	1,368	1,237	1,337	1,549	1,705
Health fields	779	770	856	692	712	655	738	777
Non-S&E 3/	20,388	21,136	21,456	22,814	21,794	23,048	23,972	26,775
Grand total	40,722	40,742	41,326	41,187	40,354	41,650	43,047	46,914
	Black, non-Hispanics							
Total science and engineering	11,917	11,063	11,005	9,389	9,272	9,053	9,181	9,815
Engineering 1/	1,295	1,550	2,020	2,488	2,589	2,338	2,369	2,452
Sciences	10,622	9,513	8,985	6,901	6,683	6,715	6,812	7,363
Natural sciences	2,524	2,421	2,501	2,833	2,939	2,732	2,476	2,538
Physical science	494	436	618	457	433	365	292	391
Mathematical science	353	320	276	376	399	374	342	380
Computer science	222	265	394	1,036	1,284	1,205	1,074	971
Biological science	1,197	1,149	954	808	723	700	658	696
Agricultural science	258	251	259	158	100	88	110	100
Social sciences 2/	8,098	7,092	6,484	4,068	3,744	3,983	4,336	4,825
Social science	7,001	6,038	5,444	3,317	3,083	3,338	3,542	3,946
Psychology	1,097	1,054	1,040	751	661	645	794	879
Health fields	429	440	436	321	340	309	349	365
Non-S&E 3/	12,819	13,172	13,082	13,330	12,330	12,551	13,080	14,058
Grand total	25,165	24,675	24,523	23,040	21,942	21,913	22,590	24,238
	Hispanics							
Total science and engineering	6,754	6,933	7,214	7,388	7,738	8,104	8,384	8,743
Engineering 1/	1,232	1,435	1,656	2,338	2,694	2,667	2,757	2,694
Sciences	5,522	5,498	5,558	5,050	5,044	5,437	5,627	6,049
Natural sciences	1,724	1,652	2,095	2,380	2,516	2,432	2,328	2,458
Physical science	363	351	420	441	377	362	311	318
Mathematical science	183	153	161	189	196	224	249	259
Computer science	86	146	270	582	766	750	669	738
Biological science	898	950	952	997	1,018	965	955	1,019
Agricultural science	196	252	292	171	159	131	144	124
Social sciences 2/	3,798	3,846	3,463	2,670	2,528	3,005	3,299	3,591
Social science	3,112	2,980	2,831	2,128	2,015	2,372	2,612	2,834
Psychology	686	866	632	542	513	633	687	757
Health fields	322	279	381	341	339	311	366	377
Non-S&E 3/	6,676	7,119	7,508	8,420	8,561	9,587	9,933	11,661
Grand total	13,752	14,331	15,103	16,149	16,638	18,002	18,683	20,781

See explanatory information and SOURCES at end of table.

Table 2. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	884	840	795	904	838	790	772	804
Engineering 1/	127	152	173	261	244	234	181	200
Sciences	757	688	622	643	594	556	591	604
Natural sciences	278	243	219	302	244	247	239	230
Physical science	51	45	44	65	45	44	52	46
Mathematical science	16	28	10	36	32	38	23	18
Computer science	13	11	17	76	61	58	54	49
Biological science	103	98	67	89	77	69	72	84
Agricultural science	95	61	81	36	29	38	38	33
Social sciences 2/	479	445	403	341	350	309	352	374
Social science	406	358	335	266	287	250	284	305
Psychology	73	87	68	75	63	59	68	69
Health fields	28	51	39	30	33	35	23	35
Non-S&E 3/	893	845	866	1,064	903	910	979	1,056
Grand total	1,805	1,736	1,700	1,998	1,774	1,735	1,774	1,895
	U.S. citizens and permanent residents, total							
Total science and engineering	236,790	226,290	218,940	216,868	212,112	206,029	204,538	206,107
Engineering 1/	43,958	52,998	61,008	76,298	73,724	68,275	65,025	62,526
Sciences	192,832	173,292	157,932	140,570	138,388	137,754	139,513	143,581
Natural sciences	80,512	75,644	72,067	74,455	70,303	61,616	57,945	57,679
Physical science	17,598	17,508	17,621	16,447	13,592	11,570	10,426	10,564
Mathematical science	8,110	6,696	6,093	7,584	8,209	7,761	7,358	7,258
Computer science	4,672	6,016	9,714	23,040	23,394	19,232	17,106	15,942
Biological science	33,761	28,895	23,895	19,725	19,117	17,553	17,746	18,709
Agricultural science	16,371	16,529	14,744	7,659	5,991	5,500	5,309	5,206
Social sciences 2/	112,320	97,648	85,865	66,115	68,085	76,138	81,568	85,902
Social science	91,854	81,188	71,608	53,593	55,274	62,384	66,896	70,356
Psychology	20,466	16,460	14,257	12,522	12,811	13,754	14,672	15,546
Health fields	11,729	11,046	10,431	6,890	6,524	6,208	6,422	6,560
Non-S&E 3/	236,103	229,996	228,371	236,258	235,159	247,168	252,208	265,765
Grand total	466,622	467,332	457,742	460,016	453,795	459,405	463,168	478,432
	Nonresident aliens 4/							
Total science and engineering	6,906	8,172	10,853	12,009	11,279	9,710	9,699	9,702
Engineering 1/	3,470	4,562	6,608	6,902	6,268	5,215	5,109	4,781
Sciences	3,436	3,610	4,245	5,107	4,991	4,495	4,590	4,921
Natural sciences	1,968	2,077	2,527	3,371	3,320	2,902	2,856	2,995
Physical science	461	561	572	580	461	406	415	411
Mathematical science	236	245	299	476	421	347	324	374
Computer science	215	269	566	1,444	1,776	1,517	1,472	1,463
Biological science	697	567	565	504	433	428	431	544
Agricultural science	379	415	525	367	229	208	214	203
Social sciences 2/	1,448	1,533	1,718	1,736	1,671	1,593	1,734	1,926
Social science	1,246	1,349	1,528	1,541	1,512	1,423	1,574	1,748
Psychology	202	184	190	195	159	170	160	178
Health fields	305	219	207	228	202	169	181	226
Non-S&E 3/	4,167	4,392	5,276	7,874	7,857	7,238	7,028	8,299
Grand total	11,378	12,783	16,336	20,111	19,138	17,117	16,908	18,227

See explanatory information and SOURCES at end of table.

Table 2. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	152	66	48	2,667	5,604	4,351	6,262	5,367
Engineering 1/	9	33	46	1,404	1,437	1,268	1,709	1,544
Sciences	143	33	2	1,263	4,167	3,083	4,553	3,843
Natural sciences	32	19	2	742	2,007	1,357	1,717	1,417
Physical science	8	7	2	122	369	181	268	224
Mathematical science	8	2	0	171	203	158	181	172
Computer science	0	1	0	208	868	669	743	491
Biological science	16	9	0	208	489	316	454	482
Agricultural science	0	0	0	37	78	35	71	68
Social sciences 2/	111	14	0	521	2,160	1,726	2,836	2,426
Social science	87	9	0	423	1,731	1,359	2,269	1,995
Psychology	24	5	0	98	429	367	567	431
Health fields	0	0	0	235	168	124	164	219
Non-S&E 3/	969	1,213	210	3,631	6,300	6,569	9,365	6,667
Grand total	1,121	1,279	258	6,533	12,070	11,044	15,791	12,293

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 3. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	130,731	138,903	144,852	144,242	147,455	151,158	158,893	168,756
Engineering 1/	2,240	5,207	7,733	13,500	13,551	12,287	12,010	11,829
Sciences	128,491	133,696	137,119	130,742	133,904	138,871	146,883	157,127
Natural sciences	38,539	39,116	42,064	51,490	49,741	43,475	42,716	43,504
Physical science	4,551	5,287	5,980	6,698	5,733	5,172	5,094	5,208
Mathematical science	5,949	4,958	4,781	7,036	7,682	7,050	6,811	6,980
Computer science	1,539	2,463	4,953	14,431	13,889	9,545	8,374	7,514
Biological science	19,719	20,105	19,586	18,970	19,008	18,654	19,409	20,636
Agricultural science	4,781	6,303	6,764	4,355	3,429	3,054	3,028	3,168
Social sciences 2/	91,952	94,580	95,055	79,252	84,163	95,396	104,167	113,623
Social science	64,850	68,217	68,138	51,830	54,367	60,733	65,548	70,885
Psychology	27,102	26,363	26,917	27,422	29,796	34,663	38,619	42,738
Health fields	45,811	51,458	54,035	43,886	44,563	40,888	40,345	40,583
Non-S&E 3/	252,565	259,585	273,654	316,089	326,511	350,559	367,046	389,706
Grand total	429,107	449,946	472,541	504,217	518,529	542,605	566,284	599,045
	White, non-Hispanics							
Total science and engineering	110,801	116,135	119,729	116,635	115,087	117,581	122,218	129,530
Engineering 1/	1,891	4,433	6,396	10,587	10,084	8,880	8,533	7,930
Sciences	108,910	111,702	113,333	106,048	105,003	108,701	113,685	121,600
Natural sciences	32,010	33,605	35,617	41,381	37,769	32,446	31,382	31,807
Physical science	4,007	4,602	5,123	5,561	4,514	4,065	3,876	3,942
Mathematical science	5,218	4,205	4,024	5,654	6,215	5,689	5,512	5,530
Computer science	1,275	1,982	3,943	11,133	9,388	5,912	4,944	4,433
Biological science	16,967	16,871	16,200	15,009	14,564	14,027	14,326	15,090
Agricultural science	4,543	5,945	6,327	4,024	3,088	2,753	2,704	2,812
Social sciences 2/	76,900	78,097	77,716	64,667	67,234	76,255	82,323	89,793
Social science	53,677	55,800	55,219	41,577	42,642	47,662	50,819	54,936
Psychology	23,223	22,297	22,497	23,090	24,592	28,593	31,504	34,857
Health fields	40,897	45,757	47,515	37,195	37,269	33,881	32,409	32,814
Non-S&E 3/	217,939	222,502	233,999	267,330	270,584	290,312	301,035	319,274
Grand total	369,637	384,394	401,243	421,160	422,940	441,774	455,662	481,618
	Asians							
Total science and engineering	2,367	2,821	3,403	5,235	6,699	7,821	8,174	8,885
Engineering 1/	88	215	367	891	1,148	1,235	1,261	1,319
Sciences	2,279	2,606	3,036	4,344	5,551	6,586	6,913	7,566
Natural sciences	836	1,117	1,369	2,564	3,101	3,187	3,272	3,446
Physical science	97	119	188	259	298	298	345	377
Mathematical science	142	153	169	411	502	492	383	433
Computer science	45	91	259	886	985	848	809	742
Biological science	479	640	663	928	1,251	1,465	1,672	1,823
Agricultural science	73	114	112	80	87	86	63	71
Social sciences 2/	1,443	1,489	1,647	1,780	2,450	3,399	3,641	4,120
Social science	975	1,010	1,100	1,220	1,701	2,328	2,502	2,799
Psychology	468	479	547	560	749	1,071	1,139	1,321
Health fields	724	805	1,013	784	1,006	1,098	1,202	1,280
Non-S&E 3/	3,136	3,597	4,342	5,910	7,312	9,451	9,554	10,787
Grand total	6,227	7,223	8,758	11,929	15,017	18,370	18,930	20,952

See explanatory information and SOURCES at end of table.

Table 3. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	15,949	18,082	19,290	17,518	17,709	18,811	20,102	22,423
Engineering 1/	156	357	615	1,253	1,563	1,513	1,475	1,640
Sciences	15,793	17,705	18,675	16,265	16,146	17,298	18,627	20,783
Natural sciences	3,048	3,661	4,100	5,364	5,908	5,419	5,487	5,734
Physical science	336	430	511	625	625	551	590	600
Mathematical science	507	480	431	563	580	582	564	677
Computer science	169	303	539	1,633	2,196	1,729	1,619	1,534
Biological science	1,935	2,268	2,385	2,385	2,362	2,417	2,558	2,752
Agricultural science	101	180	234	158	145	140	156	171
Social sciences 2/	12,745	14,044	14,575	10,901	10,238	11,879	13,140	15,049
Social science	9,605	10,719	10,998	7,667	7,142	8,113	8,923	10,085
Psychology	3,140	3,325	3,577	3,234	3,096	3,766	4,217	4,964
Health fields	3,850	4,515	5,132	4,663	4,557	4,575	4,857	4,941
Non-S&E 3/	28,550	30,111	31,741	34,832	34,545	37,129	39,371	44,344
Grand total	48,349	52,688	56,163	57,013	56,811	60,515	64,330	71,608
	Black, non-Hispanics							
Total science and engineering	11,217	12,261	12,762	10,834	10,952	11,428	12,093	13,355
Engineering 1/	90	225	429	828	995	937	903	1,004
Sciences	11,127	12,036	12,333	10,006	9,957	10,491	11,190	12,351
Natural sciences	1,985	2,279	2,431	3,176	3,585	3,273	3,306	3,296
Physical science	198	268	293	373	390	332	358	362
Mathematical science	359	332	309	394	435	418	378	431
Computer science	139	242	392	1,107	1,536	1,252	1,173	1,026
Biological science	1,218	1,342	1,316	1,241	1,167	1,216	1,336	1,415
Agricultural science	51	95	121	61	57	55	61	62
Social sciences 2/	9,162	9,757	9,902	6,830	6,372	7,218	7,884	9,055
Social science	7,038	7,593	7,634	4,914	4,582	5,120	5,528	6,246
Psychology	2,124	2,164	2,268	1,916	1,790	2,098	2,356	2,809
Health fields	2,707	2,940	3,167	2,761	2,726	2,850	2,971	3,067
Non-S&E 3/	19,611	20,425	20,277	20,928	19,483	20,646	21,647	24,349
Grand total	33,535	35,626	36,206	34,523	33,161	34,924	36,711	40,771
	Hispanics							
Total science and engineering	4,248	5,230	5,893	5,985	6,108	6,707	7,296	8,278
Engineering 1/	58	120	164	374	524	528	538	603
Sciences	4,190	5,110	5,729	5,611	5,584	6,179	6,758	7,675
Natural sciences	982	1,277	1,551	1,979	2,144	1,985	2,029	2,247
Physical science	121	144	197	219	208	201	211	215
Mathematical science	138	135	114	148	125	149	164	221
Computer science	28	61	143	463	609	445	416	477
Biological science	663	875	999	1,072	1,126	1,125	1,164	1,245
Agricultural science	32	62	98	79	74	65	74	89
Social sciences 2/	3,208	3,833	4,178	3,632	3,440	4,194	4,729	5,428
Social science	2,286	2,762	2,997	2,440	2,251	2,675	3,011	3,439
Psychology	922	1,071	1,181	1,192	1,189	1,519	1,718	1,989
Health fields	1,017	1,420	1,795	1,725	1,646	1,568	1,704	1,593
Non-S&E 3/	8,026	8,738	10,376	12,532	13,804	15,084	16,181	18,375
Grand total	13,291	15,388	18,064	20,242	21,558	23,359	25,181	28,246

See explanatory information and SOURCES at end of table.

Table 3. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	484	571	635	699	649	676	713	790
Engineering 1/	8	12	22	51	44	48	34	33
Sciences	476	559	613	648	605	628	679	757
Natural sciences	101	105	118	209	179	161	152	191
Physical science	17	18	21	33	27	18	21	23
Mathematical science	10	13	8	23	20	15	22	25
Computer science	2	0	4	63	51	32	30	31
Biological science	54	51	70	72	67	76	58	92
Agricultural science	18	23	15	18	14	20	21	20
Social sciences 2/	375	454	495	439	426	467	527	566
Social science	281	364	367	313	309	318	384	400
Psychology	94	90	128	126	117	149	143	166
Health fields	126	155	170	177	185	157	182	181
Non-S&E 3/	913	948	1,088	1,372	1,258	1,399	1,543	1,620
Grand total	1,523	1,674	1,893	2,248	2,092	2,232	2,438	2,591
	U.S. citizens and permanent residents, total							
Total science and engineering	129,117	137,018	142,422	139,388	139,495	144,213	150,494	160,838
Engineering 1/	2,135	5,005	7,378	12,731	12,795	11,628	11,269	10,889
Sciences	126,982	132,013	135,044	126,657	126,700	132,585	139,225	149,949
Natural sciences	35,894	38,383	41,106	49,309	46,778	41,052	40,121	40,987
Physical science	4,440	5,151	5,820	6,445	5,435	4,912	4,811	4,919
Mathematical science	5,867	4,838	4,624	6,628	7,297	6,763	6,459	6,640
Computer science	1,489	2,376	4,741	13,652	12,549	8,489	7,372	6,709
Biological science	19,381	19,779	19,248	18,322	18,177	17,909	18,556	19,665
Agricultural science	4,717	6,239	6,673	4,262	3,320	2,979	2,923	3,054
Social sciences 2/	91,088	93,630	93,938	77,348	79,922	91,533	99,104	108,962
Social science	64,257	67,529	67,317	50,464	51,485	58,103	62,244	67,820
Psychology	26,831	26,101	26,621	26,884	28,437	33,430	36,860	41,142
Health fields	45,471	51,077	53,660	42,642	42,832	39,554	38,468	38,935
Non-S&E 3/	249,825	256,210	270,082	308,072	312,441	336,892	349,960	374,405
Grand total	424,213	444,305	468,164	490,102	494,768	520,659	538,922	574,178
	Nonresident aliens 4/							
Total science and engineering	1,580	1,867	2,429	3,517	3,545	3,428	3,517	3,889
Engineering 1/	104	202	355	565	587	516	535	513
Sciences	1,476	1,665	2,074	2,952	2,958	2,912	2,982	3,376
Natural sciences	637	725	957	1,640	1,699	1,520	1,470	1,561
Physical science	110	134	160	200	174	199	180	197
Mathematical science	82	120	157	287	234	198	200	204
Computer science	50	87	211	672	802	618	594	574
Biological science	331	320	338	411	429	447	436	519
Agricultural science	64	64	91	70	60	60	60	67
Social sciences 2/	839	940	1,117	1,312	1,259	1,392	1,512	1,815
Social science	572	679	821	964	924	1,051	1,147	1,302
Psychology	267	261	296	348	335	341	365	513
Health fields	340	381	375	409	410	413	424	535
Non-S&E 3/	2,446	2,822	3,491	5,221	5,499	5,499	5,704	7,006
Grand total	4,366	5,070	6,295	9,147	9,454	9,340	9,645	11,430

See explanatory information and SOURCES at end of table.

Table 3. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	34	18	1	1,337	4,415	3,517	4,882	4,029
Engineering 1/	1	0	0	204	169	143	206	227
Sciences	33	18	1	1,133	4,246	3,374	4,676	3,802
Natural sciences	8	8	1	541	1,264	903	1,125	956
Physical science	1	2	0	53	124	61	103	92
Mathematical science	0	0	0	121	151	91	152	136
Computer science	0	0	1	107	538	438	408	231
Biological science	7	6	0	237	402	298	417	452
Agricultural science	0	0	0	23	49	15	45	45
Social sciences 2/	25	10	0	592	2,982	2,471	3,551	2,846
Social science	21	9	0	402	1,958	1,579	2,157	1,763
Psychology	4	1	0	190	1,024	892	1,394	1,083
Health fields	0	0	0	835	1,321	921	1,453	1,113
Non-S&E 3/	494	553	81	2,796	8,571	8,168	11,382	8,295
Grand total	528	571	82	4,968	14,307	12,608	17,717	13,437

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 4. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	83,475	79,785	79,869	81,446	84,398	88,918	91,020	92,314
Engineering 1/	16,251	15,510	16,716	21,751	22,940	24,870	25,179	25,195
Sciences	67,224	64,275	63,153	59,695	61,458	64,048	65,841	67,119
Natural sciences	22,730	22,451	22,119	24,034	25,269	26,089	26,293	25,889
Physical science	5,345	5,484	5,300	5,802	5,638	5,703	5,411	5,282
Mathematical science	3,698	3,048	2,569	2,888	3,327	3,430	3,684	3,632
Computer science	2,798	3,055	4,218	7,101	8,481	9,399	9,643	9,324
Biological science	7,154	6,879	6,015	5,091	4,999	4,953	4,893	4,808
Agricultural science	3,735	4,007	4,017	3,152	2,824	2,604	2,682	2,625
Social sciences 2/	44,494	41,824	41,034	35,661	36,189	37,959	39,548	41,450
Social science	36,174	33,793	32,995	27,180	28,024	29,307	30,240	31,648
Psychology	8,320	8,031	8,039	8,481	8,165	8,652	9,308	9,802
Health fields	13,092	15,637	16,685	14,601	15,579	16,127	16,828	17,423
Non-S&E 3/	221,674	208,653	200,244	191,166	190,555	206,005	217,099	228,761
Grand total	318,241	302,075	298,798	287,213	290,532	311,050	324,947	338,498
	White, non-Hispanics							
Total science and engineering	68,661	62,158	60,407	56,627	56,371	57,666	58,429	59,285
Engineering 1/	11,444	10,082	10,147	12,712	13,418	13,634	13,682	13,465
Sciences	55,217	52,076	50,260	43,915	42,953	44,032	44,747	45,800
Natural sciences	18,661	17,907	17,119	16,735	16,352	16,080	15,742	15,005
Physical science	4,383	4,373	4,115	4,133	3,834	3,766	3,401	3,129
Mathematical science	3,048	2,352	1,890	1,873	2,012	2,032	2,169	2,088
Computer science	2,208	2,273	2,818	4,303	4,717	4,786	4,851	4,637
Biological science	6,182	5,882	5,213	4,081	3,745	3,679	3,501	3,353
Agricultural science	2,860	3,047	3,083	2,345	2,044	1,817	1,820	1,818
Social sciences 2/	36,556	34,169	33,141	27,180	26,601	27,952	29,005	30,795
Social science	29,355	27,091	26,122	19,980	19,903	20,877	21,516	22,822
Psychology	7,201	7,078	7,019	7,220	6,698	7,075	7,489	7,973
Health fields	11,220	13,431	14,175	12,092	12,451	12,789	13,294	13,851
Non-S&E 3/	188,228	173,812	168,673	154,930	147,985	159,867	165,151	174,408
Grand total	268,109	249,401	241,255	223,649	216,807	230,322	236,874	247,524
	Asians							
Total science and engineering	2,021	2,232	2,481	3,568	3,791	4,522	4,472	4,736
Engineering 1/	737	850	1,079	1,576	1,698	2,032	1,942	2,088
Sciences	1,284	1,382	1,402	1,992	2,095	2,490	2,530	2,648
Natural sciences	586	722	741	1,229	1,426	1,617	1,629	1,735
Physical science	142	160	153	213	227	278	234	251
Mathematical science	90	104	97	164	183	178	184	189
Computer science	108	149	279	615	779	894	941	1,014
Biological science	165	205	145	179	190	223	225	231
Agricultural science	81	104	67	58	47	44	45	50
Social sciences 2/	698	660	661	763	669	873	901	933
Social science	603	573	584	634	556	742	742	763
Psychology	95	87	77	129	113	131	159	170
Health fields	349	373	448	427	416	485	519	494
Non-S&E 3/	2,775	2,914	3,375	3,810	3,922	5,167	5,003	5,840
Grand total	5,145	5,519	6,304	7,805	8,129	10,174	9,994	11,070

See explanatory information and SOURCES at end of table.

Table 4. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	6,500	5,990	6,004	5,741	5,869	5,859	6,198	6,763
Engineering 1/	514	485	576	768	1,038	923	928	975
Sciences	5,986	5,505	5,428	4,973	4,831	4,936	5,270	5,788
Natural sciences	950	880	893	1,097	1,122	1,025	1,002	1,195
Physical science	184	180	189	237	210	188	194	182
Mathematical science	190	115	116	115	136	99	127	194
Computer science	116	108	142	315	352	381	357	425
Biological science	330	348	289	308	304	267	244	286
Agricultural science	130	131	157	122	120	90	80	108
Social sciences 2/	5,036	4,625	4,535	3,876	3,709	3,911	4,268	4,593
Social science	4,183	3,938	3,862	3,069	3,027	3,123	3,391	3,699
Psychology	853	687	673	807	682	788	877	894
Health fields	1,010	1,199	1,384	1,091	1,131	1,208	1,295	1,359
Non-S&E 3/	21,570	19,702	18,257	16,115	15,003	15,603	16,527	18,514
Grand total	29,080	26,891	25,625	22,947	22,003	22,670	24,018	26,666
	Black, non-Hispanics							
Total science and engineering	4,197	4,042	3,695	3,189	3,265	3,208	3,603	3,872
Engineering 1/	240	246	260	367	445	410	431	445
Sciences	3,957	3,796	3,435	2,822	2,820	2,798	3,172	3,427
Natural sciences	551	518	488	523	581	495	527	644
Physical science	94	86	107	89	79	78	87	73
Mathematical science	133	71	67	53	73	59	70	100
Computer science	67	65	70	160	207	198	232	283
Biological science	208	217	171	151	167	124	110	137
Agricultural science	51	79	73	50	55	36	28	51
Social sciences 2/	3,406	3,278	2,947	2,299	2,239	2,301	2,645	2,783
Social science	2,900	2,802	2,523	1,873	1,863	1,906	2,174	2,329
Psychology	506	476	424	426	376	395	471	454
Health fields	657	801	869	653	643	668	740	807
Non-S&E 3/	16,187	14,579	12,568	10,118	9,265	9,581	10,130	11,178
Grand total	21,041	19,422	17,152	13,960	13,173	13,455	14,473	15,857
	Hispanics							
Total science and engineering	2,078	1,702	2,052	2,237	2,308	2,349	2,330	2,594
Engineering 1/	251	215	285	352	529	478	455	487
Sciences	1,827	1,487	1,767	1,885	1,779	1,871	1,875	2,107
Natural sciences	336	288	353	481	493	444	431	494
Physical science	69	65	71	127	122	92	98	96
Mathematical science	45	36	42	55	60	34	51	85
Computer science	46	25	60	94	123	144	118	128
Biological science	109	115	103	139	126	128	120	136
Agricultural science	67	47	77	66	62	48	44	49
Social sciences 2/	1,491	1,199	1,414	1,404	1,286	1,427	1,444	1,613
Social science	1,170	1,008	1,197	1,060	1,015	1,067	1,075	1,222
Psychology	321	191	217	344	271	360	369	391
Health fields	308	339	421	383	437	473	488	507
Non-S&E 3/	4,685	4,429	4,966	5,110	5,036	5,311	5,677	6,583
Grand total	7,071	6,470	7,439	7,730	7,781	8,133	8,495	9,684

See explanatory information and SOURCES at end of table.

Table 4. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	225	246	257	315	296	304	263	297
Engineering 1/	23	24	31	49	64	35	40	43
Sciences	202	222	226	266	232	269	223	254
Natural sciences	63	74	52	93	48	86	44	57
Physical science	21	29	11	21	9	18	9	13
Mathematical science	12	8	7	7	3	6	6	9
Computer science	3	16	12	41	22	39	7	14
Biological science	15	16	15	18	11	17	14	13
Agricultural science	12	5	7	6	3	6	8	8
Social sciences 2/	139	148	174	173	184	183	179	197
Social science	113	128	142	136	149	150	142	148
Psychology	26	20	32	37	35	33	37	49
Health fields	45	59	54	55	51	67	67	75
Non-S&E 3/	698	694	723	887	702	711	720	753
Grand total	968	999	1,034	1,257	1,049	1,082	1,050	1,125
	U.S. citizens and permanent residents, total							
Total science and engineering	75,182	70,380	68,892	65,936	66,031	68,047	69,097	70,764
Engineering 1/	12,695	11,417	11,802	15,056	16,152	16,589	16,550	16,508
Sciences	62,487	58,963	57,090	50,880	49,879	51,458	52,547	54,256
Natural sciences	20,197	19,509	18,753	19,061	18,900	18,722	18,373	17,935
Physical science	4,689	4,713	4,457	4,583	4,271	4,232	3,829	3,562
Mathematical science	3,328	2,571	2,103	2,152	2,331	2,309	2,480	2,451
Computer science	2,432	2,528	3,239	5,233	5,848	6,081	6,149	6,076
Biological science	6,677	6,415	5,647	4,588	4,239	4,169	3,970	3,870
Agricultural science	3,071	3,282	3,307	2,525	2,211	1,951	1,945	1,976
Social sciences 2/	42,290	39,454	38,337	31,819	30,979	32,736	34,174	36,321
Social science	34,141	31,602	30,568	23,663	23,486	24,742	25,649	27,284
Psychology	8,149	7,852	7,769	8,156	7,493	7,994	8,525	9,037
Health fields	12,579	15,003	15,987	13,610	13,998	14,482	15,108	15,734
Non-S&E 3/	212,573	196,428	188,305	174,855	166,910	180,637	186,681	198,762
Grand total	300,334	281,811	273,184	254,401	246,939	263,166	270,886	285,260
	Nonresident aliens 4/							
Total science and engineering	8,282	9,111	10,468	13,256	13,891	16,080	17,239	18,013
Engineering 1/	3,545	3,960	4,563	5,818	5,908	6,878	7,401	7,892
Sciences	4,737	5,151	5,905	7,438	7,983	9,202	9,838	10,321
Natural sciences	2,533	2,832	3,232	4,572	5,035	5,922	6,330	6,734
Physical science	656	706	786	1,098	1,056	1,238	1,364	1,504
Mathematical science	370	472	464	685	836	978	1,035	1,059
Computer science	366	465	904	1,709	2,087	2,442	2,563	2,819
Biological science	477	464	368	474	509	636	729	749
Agricultural science	664	725	710	606	567	630	639	603
Social sciences 2/	2,204	2,319	2,673	2,866	2,948	3,280	3,508	3,587
Social science	2,033	2,156	2,403	2,570	2,728	3,021	3,123	3,270
Psychology	171	163	270	296	220	259	385	317
Health fields	513	634	698	765	797	971	915	1,044
Non-S&E 3/	8,550	9,682	10,892	12,931	13,576	15,072	16,448	18,554
Grand total	17,345	19,427	22,058	26,952	28,264	32,123	34,602	37,611

See explanatory information and SOURCES at end of table.

Table 4. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	11	294	509	2,254	4,476	4,791	4,684	3,537
Engineering 1/	11	133	351	877	880	1,403	1,228	995
Sciences	0	161	158	1,377	3,596	3,388	3,456	2,542
Natural sciences	0	110	134	401	1,334	1,445	1,590	1,000
Physical science	0	45	57	121	311	233	218	216
Mathematical science	0	3	2	51	180	145	169	122
Computer science	0	62	75	159	588	898	931	429
Biological science	0	0	0	49	251	148	194	187
Agricultural science	0	0	0	21	46	23	78	46
Social sciences 2/	0	51	24	976	2,262	1,943	1,866	1,542
Social science	0	35	24	947	1,810	1,544	1,468	1,094
Psychology	0	16	0	29	452	399	398	448
Health fields	0	0	0	228	784	674	805	645
Non-S&E 3/	551	543	1,047	3,380	10,069	10,296	13,970	11,445
Grand total	562	837	1,556	5,880	15,329	15,761	19,459	15,627

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 5. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	58,613	53,323	51,469	51,310	52,098	54,423	55,020	54,454
Engineering 1/	15,531	14,558	15,354	19,366	19,968	21,546	21,605	21,538
Sciences	43,082	38,765	36,115	31,944	32,130	32,877	33,415	32,916
Natural sciences	17,114	16,427	15,898	16,300	16,714	17,250	17,258	16,530
Physical science	4,458	4,472	4,213	4,450	4,225	4,180	3,981	3,825
Mathematical science	2,306	1,969	1,692	1,877	2,026	2,060	2,206	2,146
Computer science	2,332	2,480	3,247	5,084	5,985	6,773	6,968	6,563
Biological science	4,736	4,287	3,675	2,662	2,555	2,491	2,393	2,315
Agricultural science	3,188	3,199	3,071	2,247	1,923	1,746	1,708	1,681
Social sciences 2/	25,968	22,338	20,217	15,644	15,416	15,627	16,157	16,386
Social science	21,652	18,650	16,846	12,580	12,578	12,813	13,132	13,392
Psychology	4,316	3,688	3,371	3,064	2,838	2,814	3,025	2,994
Health fields	4,203	4,518	4,359	3,457	3,213	3,452	3,546	3,496
Non-S&E 3/	105,394	95,931	91,603	88,949	88,344	91,524	95,359	98,945
Grand total	168,210	153,772	147,431	143,716	141,655	149,399	154,025	158,895
	White, non-Hispanics							
Total science and engineering	46,404	40,515	37,311	33,446	32,650	32,832	32,866	32,466
Engineering 1/	10,904	9,373	9,177	11,069	11,399	11,505	11,529	11,361
Sciences	35,500	31,142	28,134	22,377	21,251	21,327	21,337	21,105
Natural sciences	14,015	12,984	12,144	11,096	10,523	10,357	10,116	9,491
Physical science	3,680	3,561	3,255	3,135	2,855	2,750	2,518	2,299
Mathematical science	1 950	1,479	1,212	1,170	1,187	1,173	1,275	1,169
Computer science	1,844	1,838	2,153	3,052	3,229	3,430	3,474	3,280
Biological science	4,122	3,710	3,226	2,126	1,932	1,830	1,711	1,629
Agricultural science	2,419	2,396	2,298	1,613	1,320	1,174	1,138	1,134
Social sciences 2/	21,485	18,158	15,990	11,281	10,728	10,970	11,221	11,614
Social science	17,710	14,893	13,045	8,680	8,403	8,678	8,790	9,194
Psychology	3,775	3,265	2,945	2,601	2,325	2,292	2,431	2,420
Health fields	3,414	3,714	3,443	2,600	2,359	2,459	2,579	2,433
Non-S&E 3/	89,414	79,851	74,818	70,021	65,050	68,751	70,630	73,018
Grand total	139,232	124,080	115,572	106,067	100,059	104,042	106,075	107,917
	Asians							
Total science and engineering	1,522	1,649	1,813	2,598	2,734	3,124	2,985	3,165
Engineering 1/	704	802	974	1,397	1,496	1,735	1,597	1,724
Sciences	818	847	839	1,201	1,238	1,389	1,388	1,441
Natural sciences	435	502	498	804	908	990	976	1,031
Physical science	123	129	115	154	164	179	140	165
Mathematical science	55	67	64	108	110	117	108	108
Computer science	80	115	205	414	522	565	609	627
Biological science	106	114	62	86	85	105	97	104
Agricultural science	71	77	50	42	27	24	24	27
Social sciences 2/	383	345	343	397	330	399	392	410
Social science	339	307	309	349	297	355	350	363
Psychology	44	38	34	48	33	44	42	47
Health fields	144	115	164	154	131	143	155	135
Non-S&E 3/	1,461	1,567	1,803	2,100	2,113	2,650	2,550	2,920
Grand total	3,127	3,331	3,780	4,852	4,978	5,917	5,670	6,220

See explanatory information and SOURCES at end of table.

Table 5. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	3,543	3,110	3,056	2,853	2,999	2,789	2,875	2,999
Engineering 1/	484	450	506	656	863	733	730	758
Sciences	3,059	2,660	2,550	2,197	2,136	2,056	2,145	2,241
Natural sciences	607	541	585	670	688	639	610	664
Physical science	126	145	146	175	140	133	130	124
Mathematical science	107	63	70	69	87	58	74	112
Computer science	79	63	107	201	236	255	238	244
Biological science	181	164	145	137	137	129	120	116
Agricultural science	114	106	117	88	88	64	48	68
Social sciences 2/	2,452	2,119	1,965	1,527	1,448	1,417	1,535	1,577
Social science	2,052	1,825	1,697	1,232	1,224	1,167	1,256	1,305
Psychology	400	294	268	295	224	250	279	272
Health fields	324	330	343	247	193	263	258	291
Non-S&E 3/	8,103	7,278	6,715	6,036	5,706	5,987	6,188	6,917
Grand total	11,970	10,718	10,114	9,136	8,898	9,039	9,321	10,207
	Black, non-Hispanics							
Total science and engineering	2,083	1,939	1,712	1,487	1,497	1,389	1,534	1,577
Engineering 1/	222	224	222	302	350	302	319	328
Sciences	1,861	1,715	1,490	1,185	1,147	1,087	1,215	1,249
Natural sciences	314	301	299	300	338	290	307	338
Physical science	55	67	79	61	45	56	61	43
Mathematical science	75	35	33	34	45	32	37	53
Computer science	41	43	52	108	126	119	140	150
Biological science	99	95	82	67	80	59	51	58
Agricultural science	44	61	53	30	42	24	18	34
Social sciences 2/	1,547	1,414	1,191	885	809	777	908	911
Social science	1,341	1,239	1,027	739	693	657	775	782
Psychology	206	175	164	146	116	120	133	129
Health fields	194	217	197	138	100	132	124	145
Non-S&E 3/	5,505	4,915	4,252	3,586	3,288	3,463	3,511	3,897
Grand total	7,782	7,071	6,161	5,211	4,885	4,984	5,169	5,619
	Hispanics							
Total science and engineering	1,315	1,025	1,189	1,180	1,335	1,247	1,209	1,280
Engineering 1/	240	204	258	309	455	401	380	395
Sciences	1,075	821	931	871	880	846	829	885
Natural sciences	244	189	248	307	318	262	275	294
Physical science	55	52	58	95	88	65	63	73
Mathematical science	24	22	31	31	41	21	33	52
Computer science	35	14	45	65	91	100	93	84
Biological science	71	61	54	62	53	62	61	54
Agricultural science	59	40	60	54	45	34	25	31
Social sciences 2/	831	632	683	564	562	584	554	591
Social science	654	523	592	431	466	446	421	467
Psychology	177	109	91	133	96	118	133	124
Health fields	110	94	129	95	83	114	116	127
Non-S&E 3/	2,242	2,033	2,134	2,067	2,103	2,236	2,388	2,717
Grand total	3,667	3,152	3,452	3,342	3,521	3,597	3,713	4,124

See explanatory information and SOURCES at end of table.

Table 5. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	145	146	155	186	167	173	132	142
Engineering 1/	22	22	26	45	58	30	31	35
Sciences	123	124	129	141	109	143	101	107
Natural sciences	49	51	38	63	32	67	28	32
Physical science	16	28	9	19	7	12	6	8
Mathematical science	8	6	6	4	1	5	4	7
Computer science	3	6	10	28	19	36	5	10
Biological science	11	8	9	8	4	8	8	4
Agricultural science	11	5	4	4	1	6	5	3
Social sciences 2/	74	73	91	78	77	76	73	75
Social science	57	63	78	62	65	64	60	56
Psychology	17	10	13	16	12	12	13	19
Health fields	20	19	17	14	10	17	18	19
Non-S&E 3/	356	330	329	383	315	288	289	303
Grand total	521	495	501	583	492	478	439	464
	U.S. citizens and permanent residents, total							
Total science and engineering	51,469	45,274	42,180	38,897	38,383	38,745	38,708	38,630
Engineering 1/	12,092	10,625	10,657	13,122	13,758	13,973	13,856	13,843
Sciences	39,377	34,649	31,523	25,775	24,625	24,772	24,850	24,787
Natural sciences	15,057	14,027	13,225	12,570	12,119	11,986	11,702	11,186
Physical science	3,929	3,835	3,516	3,464	3,159	3,082	2,788	2,588
Mathematical science	2,112	1,609	1,346	1,347	1,384	1,348	1,455	1,389
Computer science	2,003	2,016	2,465	3,667	3,987	4,250	4,321	4,131
Biological science	4,409	3,988	3,433	2,349	2,154	2,084	1,928	1,849
Agricultural science	2,604	2,579	2,465	1,743	1,435	1,282	1,210	1,229
Social sciences 2/	24,320	20,622	18,298	13,205	12,506	12,786	13,148	13,601
Social science	20,101	17,025	15,051	10,261	9,924	10,200	10,396	10,862
Psychology	4,219	3,597	3,247	2,944	2,582	2,586	2,752	2,739
Health fields	3,882	4,159	3,950	3,001	2,683	2,885	2,992	2,859
Non-S&E 3/	98,978	88,696	83,336	78,157	72,569	77,388	79,368	82,855
Grand total	154,329	138,129	129,466	120,055	113,935	118,998	121,066	124,344
	Nonresident aliens 4/							
Total science and engineering	7,133	7,765	8,787	10,818	11,101	12,698	13,328	13,645
Engineering 1/	3,428	3,800	4,348	5,457	5,449	6,311	6,674	6,804
Sciences	3,705	3,965	4,439	5,361	5,652	6,387	6,654	6,841
Natural sciences	2,057	2,292	2,544	3,434	3,678	4,265	4,439	4,691
Physical science	529	592	641	689	834	954	1,028	1,070
Mathematical science	286	377	344	499	544	632	649	683
Computer science	329	404	711	1,269	1,575	1,848	1,933	2,144
Biological science	329	299	242	286	268	357	379	370
Agricultural science	584	620	606	491	457	474	450	424
Social sciences 2/	1,648	1,673	1,895	1,927	1,974	2,122	2,215	2,150
Social science	1,551	1,590	1,771	1,809	1,885	2,023	2,07[illegible]	2,046
Psychology	97	83	124	118	89	99	136	104
Health fields	321	359	409	397	417	489	418	489
Non-S&E 3/	6,040	6,779	7,392	8,459	8,801	9,435	9,953	11,016
Grand total	13,494	14,903	16,588	19,674	20,319	22,622	23,699	25,150

See explanatory information and SOURCES at end of table.

Table 5. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	11	284	502	1,595	2,614	2,980	2,986	2,179
Engineering 1/	11	133	349	787	761	1,262	1,075	891
Sciences	0	151	153	808	1,853	1,718	1,911	1,288
Natural sciences	0	108	129	296	917	999	1,117	653
Physical science	0	45	56	97	232	164	165	167
Mathematical science	0	3	2	31	96	80	104	74
Computer science	0	60	71	128	423	675	714	288
Biological science	0	0	0	27	133	70	86	96
Agricultural science	0	0	0	13	31	10	48	28
Social sciences 2/	0	43	24	512	936	719	794	635
Social science	0	35	24	510	769	590	657	484
Psychology	0	8	0	2	167	129	137	151
Health fields	0	0	0	59	113	98	236	148
Non-S&E 3/	376	456	875	2,333	4,674	4,701	6,038	5,074
Grand total	387	740	1,377	3,987	7,401	7,779	9,260	7,401

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 6. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all recipients							
Total science and engineering	24,862	26,462	28,400	30,136	32,300	34,495	36,000	37,860
Engineering 1/	720	952	1,362	2,365	2,972	3,324	3,574	3,657
Sciences	24,142	25,510	27,038	27,751	29,328	31,171	32,426	34,203
Natural sciences	5,616	6,024	6,221	7,734	8,555	8,839	9,035	9,139
Physical science	887	992	1,087	1,352	1,413	1,523	1,430	1,457
Mathematical science	1,300	1,057	877	1,011	1,301	1,370	1,476	1,496
Computer science	466	575	971	2,037	2,496	2,628	2,675	2,761
Biological science	2,416	2,592	2,340	2,429	2,444	2,462	2,500	2,491
Agricultural science	547	808	946	905	901	858	954	944
Social sciences 2/	18,526	19,486	20,817	20,017	20,773	22,332	23,391	25,064
Social science	14,522	15,143	16,149	14,600	15,446	16,494	17,108	18,256
Psychology	4,004	4,343	4,668	5,417	5,327	5,838	6,283	6,808
Health fields	8,869	11,119	12,326	11,144	12,366	12,675	13,182	13,927
Non-S&E 3/	116,260	110,722	108,641	102,217	104,211	114,481	121,740	129,816
Grand total	150,031	148,303	149,367	143,497	148,877	161,651	170,922	181,603
	White, non-Hispanics							
Total science and engineering	20,257	21,643	23,096	23,181	23,721	24,834	25,563	26,799
Engineering 1/	540	709	970	1,643	2,019	2,129	2,153	2,104
Sciences	19,717	20,934	22,126	21,538	21,702	22,705	23,410	24,695
Natural sciences	4,646	4,923	4,975	5,639	5,829	5,723	5,628	5,514
Physical science	683	812	860	998	979	1,016	863	830
Mathematical science	1,096	873	678	703	825	859	894	899
Computer science	364	435	665	1,251	1,486	1,356	1,377	1,377
Biological science	2,060	2,152	1,987	1,955	1,813	1,849	1,790	1,724
Agricultural science	441	651	785	732	724	643	682	684
Social sciences 2/	15,071	16,011	17,151	15,899	15,873	16,982	17,784	19,181
Social science	11,645	12,198	13,077	11,260	11,500	12,199	12,726	13,628
Psychology	3,426	3,813	4,074	4,619	4,373	4,783	5,058	5,553
Health fields	7,806	9,717	10,732	9,492	10,092	10,330	10,715	11,418
Non-S&E 3/	98,814	93,961	91,855	84,909	82,935	91,116	94,521	101,390
Grand total	126,877	125,321	125,683	117,582	116,748	126,280	130,799	139,607
	Asians							
Total science and engineering	499	583	668	970	1,057	1,398	1,507	1,571
Engineering 1/	33	48	105	179	200	297	345	344
Sciences	466	535	563	791	857	1,101	1,162	1,227
Natural sciences	151	220	245	425	518	627	653	704
Physical science	19	31	38	59	63	99	94	88
Mathematical science	35	37	33	56	73	61	78	81
Computer science	28	34	74	201	257	329	332	387
Biological science	59	91	83	93	105	118	128	127
Agricultural science	10	27	17	16	20	20	21	23
Social sciences 2/	315	315	318	366	339	474	509	523
Social science	264	266	275	285	259	387	392	400
Psychology	51	49	43	81	80	87	117	123
Health fields	205	258	284	273	285	342	364	359
Non-S&E 3/	1,314	1,347	1,572	1,710	1,809	2,517	2,453	2,920
Grand total	2,018	2,188	2,524	2,953	3,151	4,257	4,324	4,850

See explanatory information and SOURCES at end of table.

Table 6. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Underrepresented minorities, total							
Total science and engineering	2,957	2,880	2,948	2,888	2,870	3,070	3,321	3,764
Engineering 1/	30	35	70	112	175	190	196	217
Sciences	2,927	2,845	2,878	2,776	2,695	2,880	3,125	3,547
Natural sciences	343	339	308	427	434	386	392	531
Physical science	58	35	43	62	70	55	64	58
Mathematical science	63	52	46	46	49	41	53	82
Computer science	37	43	35	114	116	126	119	181
Biological science	149	184	144	171	167	138	124	170
Agricultural science	16	25	40	34	32	26	32	40
Social sciences 2/	2,584	2,506	2,570	2,349	2,261	2,494	2,733	3,016
Social science	2,131	2,113	2,165	1,837	1,803	1,956	2,135	2,394
Psychology	453	393	405	512	458	538	598	622
Health fields	686	869	1,021	844	938	945	1,037	1,098
Non-S&E 3/	13,467	12,424	11,542	10,079	9,297	9,616	10,339	11,597
Grand total	17,110	16,173	15,511	13,811	13,105	13,631	14,697	16,459
	Black, non-Hispanics							
Total science and engineering	2,114	2,103	1,983	1,702	1,768	1,837	2,069	2,295
Engineering 1/	18	22	38	65	95	108	112	117
Sciences	2,096	2,081	1,945	1,637	1,673	1,729	1,957	2,178
Natural sciences	237	217	189	223	243	205	220	306
Physical science	39	19	26	28	34	22	26	30
Mathematical science	58	36	34	19	28	27	33	47
Computer science	28	22	18	72	81	79	92	133
Biological science	107	122	89	84	87	65	59	79
Agricultural science	7	18	20	20	13	12	10	17
Social sciences 2/	1,859	1,864	1,756	1,414	1,430	1,524	1,737	1,872
Social science	1,559	1,563	1,496	1,134	1,170	1,249	1,399	1,547
Psychology	300	301	260	280	260	275	338	325
Health fields	463	584	992	515	543	536	616	662
Non-S&E 3/	10,682	9,664	8,316	6,532	5,977	6,118	6,619	7,281
Grand total	13,259	12,351	10,991	8,749	8,288	8,491	9,304	10,238
	Hispanics							
Total science and engineering	763	677	863	1,057	973	1,102	1,121	1,314
Engineering 1/	11	11	27	43	74	77	75	92
Sciences	752	666	836	1,014	899	1,025	1,046	1,222
Natural sciences	92	99	105	174	175	162	156	200
Physical science	14	13	13	32	34	27	35	23
Mathematical science	21	14	11	24	19	13	18	33
Computer science	11	11	15	29	32	44	25	44
Biological science	38	54	49	77	73	64	59	82
Agricultural science	8	7	17	12	17	14	19	18
Social sciences 2/	660	567	731	840	724	863	890	1,022
Social science	516	485	605	629	549	621	654	755
Psychology	144	82	126	211	175	242	236	267
Health fields	198	245	292	288	354	359	372	380
Non-S&E 3/	2,443	2,396	2,832	3,043	2,933	3,075	3,289	3,866
Grand total	3,404	3,318	3,987	4,388	4,260	4,536	4,782	5,560

See explanatory information and SOURCES at end of table.

Table 6. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	American Indians or Alaskan Natives							
Total science and engineering	80	100	102	129	129	131	131	155
Engineering 1/	1	2	5	4	6	5	9	8
Sciences	79	98	97	125	123	126	122	147
Natural sciences	14	23	14	30	16	19	16	25
Physical science	5	3	2	2	2	6	3	5
Mathematical science	4	2	1	3	2	1	2	2
Computer science	0	10	2	13	3	3	2	4
Biological science	4	8	6	10	7	9	6	9
Agricultural science	1	0	3	2	2	0	3	5
Social sciences 2/	65	75	83	95	107	107	108	122
Social science	56	65	64	74	84	86	82	92
Psychology	9	10	19	21	23	21	24	30
Health fields	25	40	37	41	41	50	49	56
Non-S&E 3/	342	364	394	504	387	423	431	450
Grand total	447	504	533	674	557	604	611	661
	U.S. citizens and permanent residents, total							
Total science and engineering	23,713	25,108	26,712	27,039	27,648	29,302	30,391	32,134
Engineering 1/	603	792	1,145	1,934	2,394	2,616	2,694	2,665
Sciences	23,110	24,314	25,567	25,105	25,254	26,686	27,697	29,469
Natural sciences	5,140	5,482	5,526	6,491	6,781	6,736	6,671	6,749
Physical science	760	878	941	1,119	1,112	1,170	1,041	974
Mathematical science	1,216	962	757	805	947	961	1,025	1,062
Computer science	429	512	774	1,566	1,861	1,811	1,826	1,945
Biological science	2,268	2,427	2,214	2,219	2,085	2,105	2,042	2,021
Agricultural science	467	703	842	782	776	689	735	747
Social sciences 2/	17,970	18,832	20,039	18,614	18,473	19,950	21,026	22,720
Social science	14,040	14,577	15,517	13,402	13,562	14,542	15,253	16,422
Psychology	3,930	4,255	4,522	5,212	4,911	5,408	5,773	6,298
Health fields	8,697	10,844	12,037	10,609	11,315	11,617	12,116	12,875
Non-S&E 3/	113,595	107,732	104,989	98,898	94,041	103,249	107,313	115,907
Grand total	146,005	143,682	143,718	134,346	133,004	144,168	149,820	160,916
	Nonresident aliens 4/							
Total science and engineering	1,149	1,346	1,681	2,438	2,790	3,382	3,911	4,368
Engineering 1/	117	160	215	361	459	567	727	888
Sciences	1,032	1,186	1,466	2,077	2,331	2,815	3,184	3,480
Natural sciences	476	540	688	1,138	1,357	1,657	1,891	2,043
Physical science	127	114	145	209	222	284	336	434
Mathematical science	84	95	120	186	292	344	366	376
Computer science	37	61	193	440	492	594	630	675
Biological science	148	165	128	188	241	279	350	379
Agricultural science	80	105	104	115	110	156	189	179
Social sciences 2/	556	646	778	939	974	1,158	1,293	1,437
Social science	482	566	632	761	843	996	1,044	1,224
Psychology	74	80	146	178	131	160	249	213
Health fields	192	275	289	368	380	482	497	555
Non-S&E 3/	2,510	2,903	3,500	4,472	4,775	5,637	6,495	7,538
Grand total	3,851	4,524	5,470	7,278	7,945	9,501	10,903	12,461

See explanatory information and SOURCES at end of table.

Table 6. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Unknown race/ethnicity							
Total science and engineering	0	10	7	659	1,862	1,811	1,698	1,358
Engineering 1/	0	0	2	90	119	141	153	104
Sciences	0	10	5	569	1,743	1,670	1,545	1,254
Natural sciences	0	2	5	105	417	446	473	347
Physical science	0	0	1	24	79	69	53	49
Mathematical science	0	0	0	20	62	65	65	48
Computer science	0	2	4	31	143	221	217	141
Biological science	0	0	0	22	118	78	108	91
Agricultural science	0	0	0	8	15	13	30	18
Social sciences 2/	0	8	0	464	1,326	1,224	1,072	907
Social science	0	0	0	437	1,041	954	811	610
Psychology	0	8	0	27	285	270	261	297
Health fields	0	0	0	167	671	576	569	497
Non-S&E 3/	175	87	172	1,047	5,395	5,595	7,932	6,371
Grand total	175	97	179	1,873	7,928	7,982	10,199	8,226

1/ Engineering includes degrees in engineering technology. Racial/ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

4/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91.

Table 7. Number of earned bachelor's degrees in all fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	928,228	931,340	946,877	990,877	1,003,532	1,030,171	1,062,151	1,107,997
U.S. citizens and permanent residents, total 1/	910,835	911,837	923,906	950,118	948,563	980,084	1,002,090	1,052,610
White, non-Hispanics	807,857	802,865	807,509	828,356	819,477	840,326	856,686	892,363
Asians	13,907	15,542	18,908	25,562	31,921	37,573	38,027	41,725
Black, non-Hispanics	58,700	60,301	60,729	57,563	55,103	56,837	59,301	65,009
Hispanics	27,043	29,719	33,167	36,391	38,196	41,361	43,864	49,027
American Indians or Alaskan Natives	3,328	3,410	3,593	4,246	3,866	3,967	4,212	4,486
Nonresident aliens 2/	15,744	17,853	22,631	29,258	28,592	26,457	26,553	29,657
Unknown race/ethnicity	1,649	1,850	340	11,501	26,377	23,650	33,508	25,730
	Men							
Total, all recipients	499,121	481,394	474,336	486,660	485,003	487,566	495,867	508,952
U.S. citizens and permanent residents, total 1/	486,622	467,332	457,742	460,016	453,795	459,405	463,168	478,432
White, non-Hispanics	438,220	418,271	406,286	405,196	396,537	398,552	401,024	410,745
Asians	7,680	8,319	10,150	13,633	16,904	19,203	19,097	20,773
Black, non-Hispanics	25,165	24,675	24,523	23,040	21,942	21,913	22,590	24,238
Hispanics	13,752	14,331	15,103	16,149	16,638	18,002	18,683	20,781
American Indians or Alaskan Natives	1,805	1,736	1,700	1,998	1,774	1,735	1,774	1,895
Nonresident aliens 2/	11,378	12,783	16,336	20,111	19,138	17,117	16,908	18,227
Unknown race/ethnicity	1,121	1,279	258	6,533	12,070	11,044	15,791	12,293
	Women							
Total, all recipients	429,107	449,946	472,541	504,217	518,529	542,605	566,284	599,045
U.S. citizens and permanent residents, total 1/	424,213	444,305	466,164	490,102	494,768	520,659	538,922	574,178
White, non-Hispanics	369,637	384,394	401,243	421,160	422,940	441,774	455,662	481,618
Asians	6,227	7,223	8,758	11,929	15,017	18,370	18,930	20,952
Black, non-Hispanics	33,535	35,626	36,206	34,523	33,161	34,924	36,711	40,771
Hispanics	13,291	15,388	18,064	20,242	21,558	23,359	25,181	28,246
American Indians or Alaskan Natives	1,523	1,674	1,893	2,248	2,092	2,232	2,438	2,591
Nonresident aliens 2/	4,366	5,070	6,295	9,147	9,454	9,340	9,645	11,430
Unknown race/ethnicity	528	571	82	4,968	14,307	12,606	17,717	13,437

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 8. Number of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	374,579	373,431	374,693	375,786	376,450	371,248	379,392	389,952
U.S. citizens and permanent residents, total 1/	365,907	363,308	361,362	356,256	351,607	350,242	355,032	366,945
White, non-Hispanics	323,845	318,819	313,486	307,081	298,129	293,282	296,140	303,532
Asians	6,558	7,591	9,572	13,998	17,921	20,222	20,453	21,828
Black, non-Hispanics	23,134	23,324	23,767	20,223	20,224	20,481	21,274	23,170
Hispanics	11,002	12,163	13,107	13,373	13,846	14,811	15,680	17,021
American Indians or Alaskan Natives	1,368	1,411	1,430	1,603	1,487	1,466	1,485	1,594
Nonresident aliens 2/	8,486	10,039	13,282	15,526	14,824	13,138	13,216	13,591
Unknown race/ethnicity	186	84	49	4,004	10,019	7,868	11,144	9,416
	Men							
Total, all recipients	243,848	234,528	229,841	231,544	228,995	220,090	220,499	221,196
U.S. citizens and permanent residents, total 1/	236,790	226,290	218,940	216,868	212,112	206,029	204,538	206,107
White, non-Hispanics	213,044	202,684	193,757	190,426	183,042	175,881	173,922	174,002
Asians	4,191	4,770	6,169	8,761	11,222	12,401	12,279	12,743
Black, non-Hispanics	11,917	11,063	11,005	9,369	9,272	9,053	9,181	9,815
Hispanics	6,754	6,933	7,214	7,388	7,738	8,104	8,384	8,743
American Indians or Alaskan Nativas	884	840	795	904	838	790	772	804
Nonresident aliens 2/	6,906	8,172	10,853	12,009	11,279	9,710	9,699	9,702
Unknown race/ethnicity	152	66	48	2,667	5,604	4,351	6,262	5,387
	Women							
Total, all recipients	130,731	138,903	144,852	144,242	147,455	151,158	158,893	168,756
U.S. citizens and permanent residents, total 1/	129,117	137,018	142,422	139,388	139,495	144,213	150,494	160,838
White, non-Hispanics	110,801	116,135	119,729	116,835	115,087	117,581	122,218	129,530
Asians	2,367	2,821	3,403	5,235	6,699	7,821	8,174	8,885
Black, non-Hispanics	11,217	12,261	12,762	10,834	10,952	11,428	12,093	13,355
Hispanics	4,248	5,230	5,893	5,985	6,108	6,707	7,296	8,278
American Indians or Alaskan Natives	484	571	635	699	649	676	713	790
Nonresident aliens 2/	1,580	1,867	2,429	3,517	3,545	3,428	3,517	3,869
Unknown race/ethnicity	34	18	1	1,337	4,415	3,517	4,882	4,029

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 9. Number of earned bachelor's degrees in all engineering fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	49,677	62,800	75,395	98,104	95,000	87,045	83,853	80,480
U.S. citizens and permanent residents, total 1/	46,093	58,003	68,386	89,029	86,519	79,903	76,294	73,415
White, non-Hispanics	42,072	52,851	60,858	77,665	73,032	66,237	62,745	59,441
Asians	1,211	1,858	3,086	5,024	6,397	6,914	6,767	6,988
Black, non-Hispanics	1,385	1,775	2,449	3,318	3,584	3,275	3,272	3,458
Hispanics	1,290	1,555	1,820	2,712	3,218	3,195	3,295	3,297
American Indians or Alaskan Natives	135	164	195	312	288	282	215	233
Nonresident aliens 2/	3,574	4,764	6,983	7,467	6,875	5,731	5,644	5,294
Unknown race/ethnicity	10	33	46	1,608	1,606	1,411	1,915	1,771
	Men							
Total, all recipients	47,437	57,583	67,662	84,604	81,449	74,758	71,843	68,851
U.S. citizens and permanent residents, total 1/	43,958	52,998	61,008	76,298	73,724	68,275	65,025	62,526
White, non-Hispanics	40,181	48,218	54,460	67,078	62,948	57,357	54,212	51,511
Asians	1,123	1,643	2,699	4,133	5,249	5,679	5,506	5,689
Black, non-Hispanics	1,295	1,550	2,020	2,468	2,589	2,338	2,369	2,452
Hispanics	1,232	1,435	1,656	2,338	2,694	2,667	2,757	2,694
American Indians or Alaskan Natives	127	152	173	261	244	234	181	200
Nonresident aliens 2/	3,470	4,582	6,608	6,902	6,288	5,215	5,109	4,781
Unknown race/ethnicity	9	33	46	1,404	1,437	1,268	1,709	1,544
	Women							
Total, all recipients	2,240	5,207	7,733	13,500	13,551	12,287	12,010	11,629
U.S. citizens and permanent residents, total 1/	2,135	5,005	7,378	12,731	12,795	11,628	11,269	10,889
White, non-Hispanics	1,891	4,433	6,396	10,587	10,084	8,880	8,533	7,930
Asians	88	215	387	891	1,148	1,235	1,261	1,319
Black, non-Hispanics	90	225	429	828	995	937	903	1,004
Hispanics	58	120	164	374	524	528	538	603
American Indians or Alaskan Natives	8	12	22	51	44	48	34	33
Nonresident aliens 2/	104	202	355	565	587	516	535	513
Unknown race/ethnicity	1	0	0	204	169	143	206	227

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 10. Number of earned bachelor's degrees in engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	49,677	62,800	75,395	77,571	74,423	66,947	64,703	62,186
U.S. citizens and permanent residents, total 1/	46,093	58,003	68,386	69,909	67,160	60,961	58,235	56,335
White, non-Hispanics	42,072	52,651	60,856	60,992	56,491	50,081	47,494	45,162
Asians	1,211	1,858	3,066	4,482	5,590	6,075	6,012	6,220
Black, non-Hispanics	1,385	1,775	2,449	2,039	2,315	2,067	2,072	2,229
Hispanics	1,290	1,555	1,820	2,187	2,554	2,561	2,511	2,566
American Indians or Alaskan Natives	135	164	195	209	210	177	146	158
Nonresident aliens 2/	3,574	4,764	6,983	6,190	5,669	5,072	4,917	4,582
Unknown race/ethnicity	10	33	46	1,472	1,374	914	1,551	1,269
	Men							
Total, all recipients	47,437	57,593	67,662	66,326	63,020	56,759	54,730	52,522
U.S. citizens and permanent residents, total 1/	43,958	52,998	61,008	59,319	56,423	51,353	48,934	47,315
White, non-Hispanics	40,181	48,218	54,460	52,167	48,015	42,779	40,533	38,692
Asians	1,123	1,643	2,699	3,641	4,522	4,936	4,827	4,969
Black, non-Hispanics	1,295	1,550	2,020	1,479	1,606	1,397	1,416	1,484
Hispanics	1,232	1,435	1,656	1,863	2,100	2,100	2,035	2,039
American Indians or Alaskan Natives	127	152	173	169	180	141	123	131
Nonresident aliens 2/	3,470	4,562	6,608	5,708	5,368	4,599	4,427	4,112
Unknown race/ethnicity	9	33	46	1,299	1,229	807	1,369	1,095
	Women							
Total, all recipients	2,240	5,207	7,733	11,245	11,403	10,188	9,973	9,664
U.S. citizens and permanent residents, total 1/	2,135	5,005	7,378	10,590	10,737	9,608	9,301	9,020
White, non-Hispanics	1,891	4,433	6,396	8,825	8,476	7,302	6,961	6,470
Asians	88	215	367	841	1,068	1,139	1,185	1,251
Black, non-Hispanics	90	225	429	560	709	670	656	745
Hispanics	58	120	164	324	454	461	476	527
American Indians or Alaskan Natives	8	12	22	40	30	36	23	27
Nonresident aliens 2/	104	202	355	482	521	473	490	470
Unknown race/ethnicity	1	0	0	173	145	107	182	174

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 11. Number of earned bachelor's degrees in engineering technologies, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	NA	NA	NA	20,533	20,577	20,098	19,150	18,294
U.S. citizens and permanent residents, total 1/	NA	NA	NA	19,120	19,359	18,942	18,059	17,080
White, non-Hispanics	NA	NA	NA	16,673	16,541	16,156	15,251	14,279
Asians	NA	NA	NA	542	807	839	755	788
Black, non-Hispanics	NA	NA	NA	1,277	1,269	1,208	1,200	1,227
Hispanics	NA	NA	NA	525	664	634	784	731
American Indians or Alaskan Natives	NA	NA	NA	103	78	105	69	75
Nonresident aliens 2/	NA	NA	NA	1,277	986	659	727	712
Unknown race/ethnicity	NA	NA	NA	136	232	497	364	502
	Men							
Total, all recipients	NA	NA	NA	18,278	18,429	17,999	17,113	16,329
U.S. citizens and permanent residents, total 1/	NA	NA	NA	16,979	17,301	16,922	16,091	15,211
White, non-Hispanics	NA	NA	NA	14,911	14,933	14,578	13,679	12,819
Asians	NA	NA	NA	492	727	743	679	700
Black, non-Hispanics	NA	NA	NA	1,009	983	941	953	958
Hispanics	NA	NA	NA	475	594	567	722	655
American Indians or Alaskan Natives	NA	NA	NA	92	64	93	58	69
Nonresident aliens 2/	NA	NA	NA	1,194	920	616	682	669
Unknown race/ethnicity	NA	NA	NA	105	208	461	340	449
	Women							
Total, all recipients	NA	NA	NA	2,255	2,148	2,099	2,037	1,965
U.S. citizens and permanent residents, total 1/	NA	NA	NA	2,141	2,058	2,020	1,968	1,869
White, non-Hispanics	NA	NA	NA	1,762	1,608	1,578	1,572	1,460
Asians	NA	NA	NA	50	80	96	76	68
Black, non-Hispanics	NA	NA	NA	268	286	267	247	259
Hispanics	NA	NA	NA	50	70	67	62	76
American Indians or Alaskan Natives	NA	NA	NA	11	14	12	11	6
Nonresident aliens 2/	NA	NA	NA	83	66	43	45	43
Unknown race/ethnicity	NA	NA	NA	31	24	36	24	53

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

KEY: NA = Not available

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 12. Number of earned bachelor's degrees in science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	324,902	310,631	299,298	277,682	281,450	284,203	295,539	309,472
U.S. citizens and permanent residents, total 1/	319,814	305,305	292,976	267,227	265,088	270,339	278,738	293,530
White, non-Hispanics	281,773	268,168	252,630	229,398	225,097	227,025	233,395	244,091
Asians	5,347	5,733	6,506	8,972	11,524	13,308	13,686	14,640
Black, non-Hispanics	21,749	21,549	21,318	16,907	16,640	17,208	18,002	19,714
Hispanics	9,712	10,608	11,287	10,681	10,628	11,616	12,385	13,724
American Indians or Alaskan Natives	1,233	1,247	1,235	1,291	1,199	1,184	1,270	1,361
Nonresident aliens 2/	4,912	5,275	6,319	8,059	7,949	7,407	7,572	8,297
Unknown race/ethnicity	176	51	3	2,396	8,413	6,457	9,229	7,645
	Men							
Total, all recipients	198,411	176,935	162,179	146,940	147,546	145,332	148,656	152,345
U.S. citizens and permanent residents, total 1/	192,832	173,292	157,932	140,570	138,388	137,754	139,513	143,581
White, non-Hispanics	172,883	154,466	139,297	123,348	120,094	118,324	119,710	122,491
Asians	3,088	3,127	3,470	4,628	5,973	6,722	6,773	7,074
Black, non-Hispanics	10,622	9,513	8,985	6,901	6,683	6,715	6,812	7,383
Hispanics	5,522	5,408	5,558	5,050	5,044	5,437	5,627	6,049
American Indians or Alaskan Natives	757	688	622	643	594	556	591	604
Nonresident aliens 2/	3,436	3,610	4,245	5,107	4,991	4,495	4,590	4,921
Unknown race/ethnicity	143	33	2	1,263	4,167	3,083	4,553	3,843
	Women							
Total, all recipients	126,491	133,696	137,119	130,742	133,904	138,871	146,883	157,127
U.S. citizens and permanent residents, total 1/	126,982	132,013	135,044	126,657	126,700	132,585	139,225	149,949
White, non-Hispanics	108,910	111,702	113,333	106,048	105,003	108,701	113,685	121,600
Asians	2,279	2,606	3,036	4,344	5,551	6,586	6,913	7,566
Black, non-Hispanics	11,127	12,036	12,333	10,006	9,957	10,491	11,190	12,351
Hispanics	4,190	5,110	5,729	5,611	5,584	6,179	6,758	7,675
American Indians or Alaskan Natives	476	559	613	648	605	628	679	757
Nonresident aliens 2/	1,476	1,665	2,074	2,952	2,958	2,912	2,982	3,376
Unknown race/ethnicity	33	18	1	1,133	4,246	3,374	4,676	3,802

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 13. Number of earned bachelor's degrees in natural sciences, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	119,071	116,856	116,660	130,058	125,371	109,350	105,234	105,595
U.S. citizens and permanent residents, total 1/	116,406	114,027	113,173	123,764	117,081	102,668	98,086	98,666
White, non-Hispanics	108,418	103,030	100,791	107,076	98,344	84,578	80,210	80,111
Asians	2,414	2,814	3,467	5,809	7,130	7,260	7,326	7,595
Black, non-Hispanics	4,489	4,700	4,932	6,009	6,524	6,005	5,782	5,834
Hispanics	2,706	3,129	3,646	4,359	4,660	4,417	4,357	4,705
American Indians or Alaskan Natives	379	348	337	511	423	408	391	421
Nonresident aliens 2/	2,625	2,802	3,484	5,011	5,019	4,422	4,326	4,556
Unknown race/ethnicity	40	27	3	1,283	3,271	2,260	2,842	2,373
	Men							
Total, all recipients	82,532	77,740	74,596	78,568	75,630	65,875	62,518	62,091
U.S. citizens and permanent residents, total 1/	80,512	75,644	72,067	74,455	70,303	61,616	57,945	57,679
White, non-Hispanics	74,408	69,431	65,174	65,695	60,575	52,132	48,848	48,304
Asians	1,578	1,697	2,078	3,245	4,029	4,073	4,054	4,149
Black, non-Hispanics	2,524	2,421	2,501	2,833	2,939	2,732	2,476	2,538
Hispanics	1,724	1,852	2,095	2,380	2,516	2,432	2,328	2,458
American Indians or Alaskan Natives	278	243	219	302	244	247	239	230
Nonresident aliens 2/	1,988	2,077	2,527	3,371	3,320	2,902	2,856	2,995
Unknown race/ethnicity	32	19	2	742	2,007	1,357	1,717	1,417
	Women							
Total, all recipients	36,539	39,116	42,064	51,490	49,741	43,475	42,716	43,504
U.S. citizens and permanent residents, total 1/	35,894	38,383	41,106	49,309	46,778	41,052	40,121	40,987
White, non-Hispanics	32,010	33,605	35,617	41,381	37,769	32,446	31,362	31,807
Asians	836	1,117	1,389	2,564	3,101	3,187	3,272	3,446
Black, non-Hispanics	1,965	2,279	2,431	3,176	3,585	3,273	3,306	3,296
Hispanics	982	1,277	1,551	1,979	2,144	1,985	2,029	2,247
American Indians or Alaskan Natives	101	105	118	209	179	161	152	191
Nonresident aliens 2/	637	725	957	1,640	1,699	1,520	1,470	1,561
Unknown race/ethnicity	8	8	1	541	1,264	903	1,125	956

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 14. Number of earned bachelor's degrees in physical science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	22,618	23,363	24,175	23,847	20,155	17,329	16,203	16,407
U.S. citizens and permanent residents, total 1/	22,038	22,659	23,441	22,892	19,027	16,482	15,237	15,483
White, non-Hispanics	20,417	20,958	21,249	20,541	16,653	14,238	13,055	13,145
Asians	377	439	599	763	894	922	937	983
Black, non-Hispanics	692	704	911	830	823	697	650	753
Hispanics	484	495	617	660	585	563	522	533
American Indians or Alaskan Natives	68	63	65	98	72	62	73	69
Nonresident aliens 2/	571	695	732	780	635	605	595	608
Unknown race/ethnicity	9	9	2	175	493	242	371	316
	Men							
Total, all recipients	18,[illegible]	18,076	18,195	17,149	14,422	12,157	11,109	11,199
U.S. citizens and permanent residents, total 1/	17,598	17,508	17,621	16,447	13,592	11,570	10,426	10,564
White, non-Hispanics	16,410	16,356	16,126	14,980	12,139	10,173	9,179	9,203
Asians	280	320	413	504	598	626	592	606
Black, non-Hispanics	494	436	618	457	433	365	292	391
Hispanics	363	351	420	441	377	362	311	318
American Indians or Alaskan Natives	51	45	44	65	45	44	52	46
Nonresident aliens 2/	461	561	572	580	461	406	415	411
Unknown race/ethnicity	8	7	2	122	369	181	268	224
	Women							
Total, all recipients	4,551	5,287	5,980	6,698	5,733	5,172	5,094	5,208
U.S. citizens and permanent residents, total 1/	4,440	5,151	5,820	6,445	5,435	4,912	4,811	4,919
White, non-Hispanics	4,007	4,602	5,123	5,561	4,514	4,065	3,876	3,942
Asians	97	119	186	259	296	296	345	377
Black, non-Hispanics	198	268	293	373	390	332	358	362
Hispanics	121	144	197	219	208	201	211	215
American Indians or Alaskan Natives	17	18	21	33	27	18	21	23
Nonresident aliens 2/	110	134	160	200	174	199	180	197
Unknown race/ethnicity	1	2	0	53	124	61	103	92

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 15. Number of earned bachelor's degrees in mathematical science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	14,303	11,901	11,173	15,267	16,515	15,314	14,674	14,784
U.S. citizens and permanent residents, total 1/	13,977	11,534	10,717	14,212	15,506	14,524	13,817	13,898
White, non-Hispanics	12,602	10,229	9,447	12,163	13,265	12,287	11,765	11,649
Asians	316	324	392	885	1,034	1,019	874	915
Black, non-Hispanics	712	652	585	770	834	792	720	811
Hispanics	321	288	275	335	321	373	413	480
American Indians or Alaskan Natives	26	41	18	59	52	53	45	43
Nonresident aliens 2/	318	365	456	763	655	543	524	578
Unknown race/ethnicity	8	2	0	292	354	247	333	308
	Men							
Total, all recipients	8,354	6,943	6,392	8,231	8,833	8,264	7,863	7,804
U.S. citizens and permanent residents, total 1/	8,110	6,696	6,093	7,584	8,209	7,761	7,358	7,258
White, non-Hispanics	7,384	6,024	5,423	6,509	7,050	6,598	6,253	6,119
Asians	174	171	223	474	532	527	491	482
Black, non-Hispanics	353	320	276	376	399	374	342	380
Hispanics	183	153	161	189	196	224	249	259
American Indians or Alaskan Natives	16	28	10	36	32	38	23	18
Nonresident aliens 2/	236	245	299	476	421	347	324	374
Unknown race/ethnicity	8	2	0	171	203	156	181	172
	Women							
Total, all recipients	5,949	4,958	4,781	7,036	7,682	7,050	6,811	6,980
U.S. citizens and permanent residents, total 1/	5,867	4,838	4,624	6,628	7,297	6,763	6,459	6,640
White, non-Hispanics	5,218	4,205	4,024	5,654	6,215	5,689	5,512	5,530
Asians	142	153	169	411	502	492	383	433
Black, non-Hispanics	359	332	309	394	435	418	378	431
Hispanics	138	135	114	146	125	149	164	221
American Indians or Alaskan Natives	10	13	8	23	20	15	22	25
Nonresident aliens 2/	82	120	157	287	234	196	200	204
Unknown race/ethnicity	0	0	0	121	151	91	152	136

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 16. Number of earned bachelor's degrees in computer science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	6,426	8,769	15,233	39,121	39,927	30,963	27,695	25,410
U.S. citizens and permanent residents, total 1/	6,161	8,392	14,455	36,692	35,943	27,721	24,478	22,651
White, non-Hispanics	5,508	7,404	12,566	31,321	29,181	21,711	18,918	17,349
Asians	163	263	669	2,044	2,455	2,268	2,144	2,010
Black, non-Hispanics	361	507	786	2,143	2,820	2,457	2,247	1,997
Hispanics	114	207	413	1,045	1,375	1,195	1,085	1,215
American Indians or Alaskan Natives	15	11	21	139	112	90	84	80
Nonresident aliens 2/	265	376	777	2,116	2,578	2,135	2,066	2,037
Unknown race/ethnicity	0	1	1	313	1,406	1,107	1,151	722
	Men							
Total, all recipients	4,887	6,306	10,280	24,690	26,038	21,418	19,321	17,896
U.S. citizens and permanent residents, total 1/	4,672	6,016	9,714	23,040	23,394	19,232	17,106	15,942
White, non-Hispanics	4,233	5,422	8,623	20,188	19,793	15,799	13,974	12,916
Asians	118	172	410	1,158	1,490	1,420	1,335	1,268
Black, non-Hispanics	222	265	394	1,036	1,284	1,205	1,074	971
Hispanics	86	146	270	582	766	750	669	738
American Indians or Alaskan Natives	13	11	17	76	61	58	54	49
Nonresident aliens 2/	215	289	566	1,444	1,776	1,517	1,472	1,463
Unknown race/ethnicity	0	1	0	206	868	669	743	491
	Women							
Total, all recipients	1,539	2,463	4,953	14,431	13,889	9,545	8,374	7,514
U.S. citizens and permanent residents, total 1/	1,489	2,376	4,741	13,652	12,549	8,489	7,372	6,709
White, non-Hispanics	1,275	1,982	3,943	11,133	9,388	5,912	4,944	4,433
Asians	45	91	259	886	965	848	809	742
Black, non-Hispanics	139	242	392	1,107	1,536	1,252	1,173	1,026
Hispanics	28	61	143	463	609	445	416	477
American Indians or Alaskan Natives	2	0	4	63	51	32	30	31
Nonresident aliens 2/	50	87	211	672	802	618	594	574
Unknown race/ethnicity	0	0	1	107	538	438	408	231

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 17. Number of earned bachelor's degrees in biological science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
				Total				
Total, all recipients	54,193	49,576	44,046	39,405	39,047	36,949	38,040	40,351
U.S. citizens and permanent residents, total 1/	53,142	48,674	43,143	38,047	37,294	35,462	36,302	38,374
White, non-Hispanics	47,695	42,745	37,292	31,818	30,549	28,404	28,814	30,264
Asians	1,316	1,464	1,493	1,952	2,565	2,907	3,245	3,559
Black, non-Hispanics	2,415	2,491	2,270	2,047	1,890	1,916	1,99[illegible]	2,111
Hispanics	1,559	1,825	1,951	2,069	2,146	2,090	2,1[illegible]9	2,264
American Indians or Alaskan Natives	157	149	137	161	144	145	130	176
Nonresident aliens 2/	1,028	887	903	915	862	873	867	1,063
Unknown race/ethnicity	23	15	0	443	891	614	871	914
				Men				
Total, all recipients	34,474	29,471	24,460	20,435	20,039	18,295	18,631	[illegible],715
U.S. citizens and permanent residents, total 1/	33,761	28,895	23,895	19,725	19,117	17,553	17,746	18,709
White, non-Hispanics	30,728	25,874	21,092	16,809	15,985	14,377	14,488	15,174
Asians	837	824	830	1,024	1,314	1,442	1,573	1,736
Black, non-Hispanics	1,197	1,149	954	806	723	700	658	690
Hispanics	896	950	952	997	1,018	965	955	1,019
American Indians or Alaskan Natives	103	98	67	89	77	69	72	84
Nonresident aliens 2/	697	567	565	504	433	426	431	544
Unknown race/ethnicity	16	9	0	206	489	316	454	462
				Women				
Total, all recipients	19,719	20,105	19,586	18,970	19,008	18,654	19,409	20,636
U.S. citizens and permanent residents, total 1/	19,381	19,779	19,248	18,322	18,177	17,909	18,556	19,665
White, non-Hispanics	16,967	16,871	16,200	15,009	14,564	14,027	14,326	15,090
Asians	479	640	663	928	1,251	1,465	1,672	1,823
Black, non-Hispanics	1,218	1,342	1,316	1,241	1,167	1,216	1,336	1,415
Hispanics	663	875	999	1,072	1,128	1,125	1,164	1,245
American Indians or Alaskan Natives	54	51	70	72	67	76	58	92
Nonresident aliens 2/	331	320	338	411	429	447	436	519
Unknown race/ethnicity	7	6	0	237	402	298	417	452

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 18. Number of earned bachelor's degrees in agricultural science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	21,531	23,247	22,033	12,418	9,727	8,795	8,622	8,643
U.S. citizens and permanent residents, total 1/	21,088	22,768	21,417	11,921	9,311	8,479	8,232	8,260
White, non-Hispanics	20,196	21,700	20,237	11,233	8,696	7,938	7,658	7,704
Asians	242	324	314	165	182	144	126	128
Black, non-Hispanics	309	346	380	219	157	143	171	162
Hispanics	228	314	390	250	233	196	218	213
American Indians or Alaskan Natives	113	84	96	54	43	58	59	53
Nonresident aliens 2/	443	479	616	437	289	266	274	270
Unknown race/ethnicity	0	0	0	60	127	50	116	113
	Men							
Total, all recipients	16,750	16,944	15,269	8,063	6,298	5,741	5,594	5,477
U.S. citizens and permanent residents, total 1/	16,371	16,529	14,744	7,659	5,991	5,500	5,309	5,206
White, non-Hispanics	15,653	15,755	13,910	7,209	5,608	5,185	4,954	4,892
Asians	169	210	202	85	95	58	63	57
Black, non-Hispanics	258	251	259	158	100	88	110	100
Hispanics	196	252	292	171	159	131	144	124
American Indians or Alaskan Natives	95	61	81	36	29	38	38	33
Nonresident aliens 2/	379	415	525	367	229	206	214	203
Unknown race/ethnicity	0	0	0	37	78	35	71	68
	Women							
Total, all recipients	4,781	6,303	6,764	4,355	3,429	3,054	3,028	3,166
U.S. citizens and permanent residents, total 1/	4,717	6,239	6,673	4,262	3,320	2,979	2,923	3,054
White, non-Hispanics	4,543	5,945	6,327	4,024	3,088	2,753	2,704	2,812
Asians	73	114	112	80	87	86	63	71
Black, non-Hispanics	51	95	121	61	57	55	61	62
Hispanics	32	62	98	79	74	65	74	89
American Indians or Alaskan Natives	18	23	15	18	14	20	21	20
Nonresident aliens 2/	64	64	91	70	60	60	60	67
Unknown race/ethnicity	0	0	0	23	49	15	45	45

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually there[illegible] but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 19. Number of earned bachelor's degrees in social sciences, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	205,831	193,775	182,638	147,624	156,079	174,853	190,305	203,877
U.S. citizens and permanent residents, total 1/	203,408	191,278	179,803	143,463	148,007	167,671	180,672	194,864
White, non-Hispanics	175,355	163,132	151,839	122,320	126,753	142,447	153,185	163,980
Asians	2,933	2,919	3,039	3,163	4,394	6,048	6,360	7,045
Black, non-Hispanics	17,260	16,849	16,386	10,898	10,116	11,201	12,220	13,880
Hispanics	7,006	7,479	7,641	6,302	5,968	7,199	8,028	9,019
American Indians or Alaskan Natives	854	899	898	780	776	776	879	940
Nonresident aliens 2/	2,287	2,473	2,835	3,048	2,930	2,985	3,246	3,741
Unknown race/ethnicity	136	24	0	1,113	5,142	4,197	6,387	5,272
	Men							
Total, all recipients	113,879	99,195	87,583	68,372	71,916	79,457	86,138	90,254
U.S. citizens and permanent residents, total 1/	112,320	97,648	85,865	66,115	68,085	76,138	81,568	85,902
White, non-Hispanics	98,455	85,035	74,123	57,653	59,519	66,192	70,862	74,187
Asians	1,490	1,430	1,392	1,383	1,944	2,649	2,719	2,925
Black, non-Hispanics	8,098	7,092	6,484	4,068	3,744	3,983	4,336	4,825
Hispanics	3,798	3,646	3,463	2,670	2,528	3,005	3,299	3,591
American Indians or Alaskan Natives	479	445	403	341	350	309	352	374
Nonresident aliens 2/	1,448	1,533	1,718	1,736	1,671	1,593	1,734	1,926
Unknown race/ethnicity	111	14	0	521	2,160	1,726	2,836	2,426
	Women							
Total, all recipients	91,952	94,580	95,055	79,252	84,163	95,396	104,167	113,623
U.S. citizens and permanent residents, total 1/	91,088	93,630	93,938	77,348	79,922	91,533	99,104	108,962
White, non-Hispanics	76,900	78,097	77,716	64,667	67,234	76,255	82,323	89,793
Asians	1,443	1,489	1,647	1,780	2,450	3,399	3,641	4,120
Black, non-Hispanics	9,162	9,757	9,902	6,830	6,372	7,218	7,884	9,055
Hispanics	3,208	3,833	4,178	3,632	3,440	4,194	4,729	5,428
American Indians or Alaskan Natives	375	454	495	439	426	487	527	566
Nonresident aliens 2/	839	940	1,117	1,312	1,259	1,392	1,512	1,815
Unknown race/ethnicity	25	10	0	592	2,982	2,471	3,551	2,846

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 20. Number of earned bachelor's degrees in social science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	158,037	150,763	141,274	107,387	112,884	125,899	136,287	144,984
U.S. citizens and permanent residents, total 1/	156,111	148,717	138,925	104,057	106,759	120,487	129,140	138,176
White, non-Hispanics	133,861	126,484	117,121	88,361	90,992	101,941	109,049	115,846
Asians	2,126	2,138	2,196	2,318	3,240	4,473	4,730	5,160
Black, non-Hispanics	14,039	13,631	13,078	8,231	7,665	8,458	9,070	10,192
Hispanics	5,398	5,742	5,828	4,568	4,266	5,047	5,623	6,273
American Indians or Alaskan Natives	687	722	702	579	596	568	668	705
Nonresident aliens 2/	1,818	2,028	2,349	2,505	2,436	2,474	2,721	3,050
Unknown race/ethnicity	108	18	0	825	3,689	2,938	4,426	3,758
	Men							
Total, all recipients	93,187	82,546	73,136	55,557	58,517	65,166	70,739	74,099
U.S. citizens and permanent residents, total 1/	91,854	81,188	71,608	53,593	55,274	62,384	66,896	70,356
White, non-Hispanics	80,184	70,684	61,902	46,784	48,350	54,279	58,230	60,910
Asians	1,151	1,128	1,096	1,098	1,539	2,145	2,228	2,361
Black, non-Hispanics	7,001	6,038	5,444	3,317	3,083	3,338	3,542	3,946
Hispanics	3,112	2,980	2,831	2,128	2,015	2,372	2,612	2,834
American Indians or Alaskan Natives	406	358	335	266	287	250	284	305
Nonresident aliens 2/	1,246	1,349	1,528	1,541	1,512	1,423	1,574	1,748
Unknown race/ethnicity	87	9	0	423	1,731	1,359	2,269	1,995
	Women							
Total, all recipients	64,850	68,217	68,138	51,830	54,367	60,733	65,548	70,885
U.S. citizens and permanent residents, total 1/	64,257	67,529	67,317	50,464	51,485	58,103	62,244	67,820
White, non-Hispanics	53,677	55,800	55,219	41,577	42,642	47,662	50,819	54,936
Asians	975	1,010	1,100	1,220	1,701	2,328	2,502	2,799
Black, non-Hispanics	7,038	7,593	7,634	4,914	4,582	5,120	5,528	6,246
Hispanics	2,286	2,762	2,997	2,440	2,251	2,675	3,011	3,439
American Indians or Alaskan Natives	281	364	367	313	309	318	384	400
Nonresident aliens 2/	572	679	821	964	924	1,051	1,147	1,302
Unknown race/ethnicity	21	9	0	402	1,958	1,579	2,157	1,763

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 21. Number of earned bachelor's degrees in psychology, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	47,794	43,012	41,364	40,237	43,195	48,954	54,018	58,893
U.S. citizens and permanent residents, total 1/	47,297	42,561	40,878	39,408	41,248	47,184	51,532	56,688
White, non-Hispanics	41,494	36,648	34,718	33,959	35,761	40,508	44,136	48,134
Asians	807	781	843	845	1,154	1,575	1,630	1,885
Black, non-Hispanics	3,221	3,218	3,308	2,667	2,451	2,743	3,150	3,688
Hispanics	1,608	1,737	1,813	1,734	1,702	2,152	2,405	2,748
American Indians or Alaskan Natives	167	177	196	201	180	208	211	235
Nonresident aliens 2/	469	445	486	543	494	511	525	691
Unknown race/ethnicity	28	6	0	288	1,453	1,259	1,961	1,514
	Men							
Total, all recipients	20,692	16,649	14,447	12,815	13,399	14,291	15,399	16,155
U.S. citizens and permanent residents, total 1/	20,466	16,460	14,257	12,522	12,811	13,754	14,672	15,546
White, non-Hispanics	18,271	14,351	12,221	10,869	11,169	11,913	12,632	13,277
Asians	339	302	298	285	405	504	491	564
Black, non-Hispanics	1,097	1,054	1,040	751	661	645	794	879
Hispanics	686	666	632	542	513	633	687	757
American Indians or Alaskan Natives	73	87	68	75	63	59	68	69
Nonresident aliens 2/	202	184	190	195	159	170	160	178
Unknown race/ethnicity	24	5	0	98	429	367	567	431
	Women							
Total, all recipients	27,102	26,363	26,917	27,422	29,796	34,663	38,619	42,738
U.S. citizens and permanent residents, total 1/	26,831	26,101	26,621	26,884	28,437	33,430	36,860	41,142
White, non-Hispanics	23,223	22,297	22,497	23,090	24,592	28,593	31,504	34,857
Asians	468	479	547	560	749	1,071	1,139	1,321
Black, non-Hispanics	2,124	2,164	2,268	1,916	1,790	2,098	2,356	2,809
Hispanics	922	1,071	1,181	1,192	1,189	1,519	1,718	1,989
American Indians or Alaskan Natives	94	90	128	126	117	149	143	166
Nonresident aliens 2/	267	261	296	348	335	341	365	513
Unknown race/ethnicity	4	1	0	190	1,024	892	1,394	1,083

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 22. Number of earned bachelor's degrees in health fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	57,845	62,723	64,673	51,239	51,455	47,389	47,112	47,588
U.S. citizens and permanent residents, total 1/	57,200	62,123	64,091	49,532	49,356	45,762	44,890	45,495
White, non-Hispanics	51,551	55,751	56,791	43,152	42,824	39,103	37,779	38,202
Asians	1,020	1,087	1,312	1,025	1,283	1,429	1,516	1,675
Black, non-Hispanics	3,136	3,380	3,603	3,082	3,086	3,159	3,320	3,432
Hispanics	1,339	1,699	2,176	2,086	1,985	1,879	2,070	1,970
American Indians or Alaskan Natives	154	206	209	207	218	192	205	216
Nonresident aliens 2/	645	600	582	637	612	582	605	761
Unknown race/ethnicity	0	0	0	1,070	1,487	1,045	1,617	1,332
	Men							
Total, all recipients	12,034	11,285	10,638	7,353	6,892	6,501	6,767	7,005
U.S. citizens and permanent residents, total 1/	11,729	11,046	10,431	6,890	6,524	6,208	6,422	6,560
White, non-Hispanics	10,654	9,994	9,276	5,957	5,555	5,222	5,370	5,388
Asians	236	282	299	241	257	331	314	395
Black, non-Hispanics	429	440	436	321	340	309	349	365
Hispanics	322	279	381	341	339	311	366	377
American Indians or Alaskan Natives	28	51	39	30	33	35	23	35
Nonresident aliens 2/	305	219	207	226	202	169	181	226
Unknown race/ethnicity	0	0	0	235	166	124	164	219
	Women							
Total, all recipients	45,811	51,458	54,035	43,886	44,563	40,888	40,345	40,583
U.S. citizens and permanent residents, total 1/	45,471	51,077	53,660	42,642	42,832	39,554	38,468	38,935
White, non-Hispanics	40,897	45,757	47,515	37,195	37,269	33,881	32,409	32,814
Asians	724	805	1,013	784	1,008	1,098	1,202	1,280
Black, non-Hispanics	2,707	2,940	3,167	2,761	2,726	2,850	2,971	3,067
Hispanics	1,017	1,420	1,795	1,795	1,646	1,568	1,704	1,593
American Indians or Alaskan Natives	126	155	170	177	185	157	182	181
Nonresident aliens 2/	340	381	375	409	410	413	424	535
Unknown race/ethnicity	0	0	0	835	1,321	921	1,453	1,113

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 23. Number of earned bachelor's degrees in non-science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	495,804	495,186	507,511	563,852	575,627	611,534	635,647	670,457
U.S. citizens and permanent residents, total 1/	487,728	486,206	498,453	544,330	547,600	584,060	602,168	640,170
White, non-Hispanics	432,461	428,095	437,232	476,143	478,524	507,961	522,767	550,629
Asians	6,329	6,864	8,024	10,541	12,737	15,922	16,058	18,422
Black, non-Hispanics	32,430	33,597	33,359	34,258	31,813	33,197	34,707	38,407
Hispanics	14,702	15,857	17,884	20,952	22,365	24,671	26,114	30,038
American Indians or Alaskan Natives	1,806	1,793	1,954	2,436	2,161	2,309	2,522	2,676
Nonresident aliens 2/	6,613	7,214	8,767	13,095	13,156	12,737	12,732	15,305
Unknown race/ethnicity	1,463	1,766	291	6,427	14,871	14,737	20,747	14,982
	Men							
Total, all recipients	243,239	235,601	233,857	247,763	249,116	260,975	268,601	280,751
U.S. citizens and permanent residents, total 1/	238,103	229,996	228,371	236,258	235,159	247,168	252,208	265,765
White, non-Hispanics	214,522	205,593	203,233	208,813	207,940	217,649	221,732	231,355
Asians	3,193	3,267	3,682	4,631	5,425	6,471	6,504	7,635
Black, non-Hispanics	12,819	13,172	13,082	13,330	12,330	12,551	13,060	14,058
Hispanics	6,676	7,119	7,508	8,420	8,561	9,587	9,933	11,661
American Indians or Alaskan Natives	893	845	866	1,064	903	910	979	1,056
Nonresident aliens 2/	4,167	4,392	5,276	7,874	7,657	7,238	7,028	8,299
Unknown race/ethnicity	969	1,213	210	3,631	6,300	6,569	9,365	6,687
	Women							
Total, all recipients	252,565	259,585	273,654	316,089	326,511	350,559	367,046	389,706
U.S. citizens and permanent residents, total 1/	249,625	256,210	270,082	308,072	312,441	336,892	349,960	374,405
White, non-Hispanics	217,939	222,502	233,999	267,330	270,584	290,312	301,035	319,274
Asians	3,136	3,597	4,342	5,910	7,312	9,451	9,554	10,787
Black, non-Hispanics	19,611	20,425	20,277	20,928	19,483	20,646	21,647	24,349
Hispanics	8,026	8,738	10,376	12,532	13,804	15,084	16,181	18,375
American Indians or Alaskan Natives	913	948	1,088	1,372	1,258	1,399	1,543	1,620
Nonresident aliens 2/	2,446	2,822	3,491	5,221	5,499	5,499	5,704	7,006
Unknown race/ethnicity	494	553	81	2,796	8,571	8,168	11,382	8,295

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 24. Number of earned master's degrees in all fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	318,241	302,075	298,798	287,213	290,532	311,050	324,947	338,498
U.S. citizens and permanent residents, total 1/	300,334	281,811	273,184	254,401	246,939	263,166	270,886	285,260
White, non-Hispanics	268,109	249,401	241,255	223,649	216,807	230,322	236,874	247,524
Asians	5,145	5,519	6,304	7,805	8,129	10,174	9,994	11,070
Black, non-Hispanics	21,041	19,422	17,152	13,960	13,173	13,455	14,473	15,857
Hispanics	7,071	6,470	7,439	7,730	7,781	8,133	8,495	9,684
American Indians or Alaskan Natives	968	999	1,034	1,257	1,049	1,082	1,050	1,125
Nonresident aliens 2/	17,345	19,427	22,058	26,952	28,264	32,123	34,602	37,611
Unknown race/ethnicity	562	837	1,556	5,860	15,329	15,761	19,459	15,627
	Men							
Total, all recipients	168,210	153,772	147,431	143,716	141,655	149,399	154,025	156,895
U.S. citizens and permanent residents, total 1/	154,329	138,129	129,468	120,055	113,935	118,998	121,066	124,344
White, non-Hispanics	139,232	124,080	115,572	106,067	100,059	104,042	106,075	107,917
Asians	3,127	3,331	3,780	4,852	4,978	5,917	5,670	6,220
Black, non-Hispanics	7,782	7,071	6,161	5,211	4,885	4,984	5,169	5,619
Hispanics	3,667	3,152	3,452	3,342	3,521	3,597	3,713	4,124
American Indians or Alaskan Natives	521	495	501	583	492	478	439	464
Nonresident aliens 2/	13,494	14,903	16,588	19,674	20,319	22,622	23,699	25,150
Unknown race/ethnicity	387	740	1,377	3,987	7,401	7,779	9,260	7,401
	Women							
Total, all recipients	150,031	148,303	149,367	143,497	148,877	161,651	170,922	181,603
U.S. citizens and permanent residents, total 1/	146,005	143,682	143,718	134,346	133,004	144,168	149,820	160,916
White, non-Hispanics	128,877	125,321	125,683	117,582	116,748	126,280	130,799	139,607
Asians	2,018	2,188	2,524	2,953	3,151	4,257	4,324	4,850
Black, non-Hispanics	13,259	12,351	10,991	8,749	8,288	8,491	9,304	10,238
Hispanics	3,404	3,318	3,987	4,388	4,260	4,536	4,782	5,560
American Indians or Alaskan Natives	447	504	533	674	557	604	611	661
Nonresident aliens 2/	3,851	4,524	5,470	7,278	7,945	9,501	10,903	12,461
Unknown race/ethnicity	175	97	179	1,873	7,928	7,982	10,199	8,226

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 25. Number of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	83,475	79,785	79,869	81,446	84,398	88,918	91,020	92,314
U.S. citizens and permanent residents, total 1/	75,182	70,380	68,892	65,936	66,031	68,047	69,[illegible]	70,764
White, non-Hispanics	66,661	62,158	60,407	56,627	56,371	57,666	58,429	59,265
Asians	2,021	2,232	2,481	3,568	3,791	4,522	4,472	4,736
Black, non-Hispanics	4,197	4,042	3,695	3,189	3,265	3,206	3,603	3,872
Hispanics	2,078	1,702	2,052	2,237	2,308	2,349	2,330	2,594
American Indians or Alaskan Natives	225	246	257	315	296	304	263	297
Nonresident aliens 2/	8,282	9,111	10,468	13,256	13,891	16,080	17,239	18,013
Unknown race/ethnicity	11	294	509	2,254	4,476	4,791	4,684	3,537
	Men							
Total, all recipients	58,613	53,323	51,469	51,310	52,098	54,423	55,020	54,454
U.S. citizens and permanent residents, total 1/	51,469	45,274	42,180	38,897	38,383	38,745	38,7[illegible]5	38,630
White, non-Hispanics	46,404	40,515	37,311	33,446	32,650	32,832	32,866	32,466
Asians	1,522	1,649	1,813	2,598	2,734	3,124	2,965	3,165
Black, non-Hispanics	2,083	1,939	1,712	1,487	1,497	1,369	1,534	1,577
Hispanics	1,315	1,025	1,189	1,180	1,335	1,247	1,209	1,280
American Indians or Alaskan Natives	145	146	155	186	167	173	132	142
Nonresident aliens 2/	7,133	7,765	8,787	10,818	11,101	12,698	13,328	13,645
Unknown race/ethnicity	11	284	502	1,595	2,614	2,980	2,986	2,179
	Women							
Total, all recipients	24,862	26,462	28,400	30,136	32,300	34,495	36,000	37,860
U.S. citizens and permanent residents, total 1/	23,713	25,106	26,712	27,039	27,648	29,302	30,391	32,134
White, non-Hispanics	20,257	21,643	23,096	23,181	23,721	24,834	25,563	26,799
Asians	499	583	668	970	1,057	1,390	1,507	1,571
Black, non-Hispanics	2,114	2,103	1,983	1,702	1,768	1,837	2,069	2,295
Hispanics	763	677	863	1,057	973	1,102	1,121	1,314
American Indians or Alaskan Natives	80	100	102	129	129	131	131	155
Nonresident aliens 2/	1,149	1,346	1,681	2,438	2,790	3,382	3,911	4,368
Unknown race/ethnicity	0	10	7	659	1,862	1,8[illegible]1	1,698	1,358

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 28. Number of earned master's degrees in all engineering fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	16,251	15,510	16,716	21,751	22,940	24,870	25,179	25,195
U.S. citizens and permanent residents, total 1/	12,695	11,417	11,802	15,056	16,152	16,589	16,550	16,508
White, non-Hispanics	11,444	10,082	10,147	12,712	13,418	13,634	13,682	13,465
Asians	737	850	1,079	1,576	1,696	2,032	1,942	2,088
Black, non-Hispanics	240	246	280	387	445	410	431	445
Hispanics	251	215	265	352	529	478	455	487
American Indians or Alaskan Natives	23	24	31	49	64	35	40	43
Nonresident aliens 2/	3,545	3,980	4,563	5,818	5,908	6,878	7,401	7,692
Unknown race/ethnicity	11	133	351	877	880	1,403	1,228	995
	Men							
Total, all recipients	15,531	14,558	15,354	19,388	19,988	21,546	21,605	21,538
U.S. citizens and permanent residents, total 1/	12,092	10,625	10,657	13,122	13,758	13,973	13,856	13,843
White, non-Hispanics	10,904	9,373	9,177	11,089	11,399	11,505	11,529	11,361
Asians	704	802	974	1,397	1,496	1,735	1,597	1,724
Black, non-Hispanics	222	224	222	302	350	302	319	328
Hispanics	240	204	258	309	455	401	380	395
American Indians or Alaskan Natives	22	22	26	45	58	30	31	35
Nonresident aliens 2/	3,428	3,400	4,348	5,457	5,449	6,311	6,674	6,804
Unknown race/ethnicity	11	133	349	787	761	1,262	1,075	891
	Women							
Total, all recipients	720	952	1,362	2,385	2,972	3,324	3,574	3,657
U.S. citizens and permanent residents, total 1/	603	792	1,145	1,934	2,394	2,616	2,694	2,665
White, non-Hispanics	540	709	970	1,643	2,019	2,129	2,153	2,104
Asians	33	48	105	179	200	297	345	344
Black, non-Hispanics	18	22	38	65	95	108	112	117
Hispanics	11	11	27	43	74	77	75	92
American Indians or Alaskan Natives	1	2	5	4	6	5	9	8
Nonresident aliens 2/	117	160	215	361	459	567	727	888
Unknown race/ethnicity	0	0	2	90	119	141	153	104

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 27. Number of earned master's degrees in engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	16,251	15,510	16,716	20,935	22,057	23,735	23,985	24,007
U.S. citizens and permanent residents, total 1/	12,695	11,417	11,802	14,460	15,440	15,880	15,580	15,549
White, non-Hispanics	11,444	10,082	10,147	12,188	12,837	12,832	12,859	12,635
Asians	737	850	1,079	1,551	1,850	1,992	1,883	2,008
Black, non-Hispanics	240	246	260	330	403	355	387	388
Hispanics	251	215	285	348	512	468	446	488
American Indians or Alaskan Natives	23	24	31	47	38	33	35	40
Nonresident aliens 2/	3,545	3,980	4,583	5,694	5,781	6,747	7,239	7,520
Unknown race/ethnicity	11	133	351	781	836	1,308	1,156	938
	Men							
Total, all recipients	15,531	14,558	15,354	18,692	19,290	20,654	20,717	20,650
U.S. citizens and permanent residents, total 1/	12,092	10,625	10,657	12,641	13,209	13,258	13,168	13,138
White, non-Hispanics	10,904	9,373	9,177	10,848	10,983	10,874	10,922	10,742
Asians	704	802	974	1,374	1,455	1,699	1,557	1,685
Black, non-Hispanics	222	224	222	274	315	262	287	299
Hispanics	240	204	258	304	444	394	373	378
American Indians or Alaskan Natives	22	22	26	43	32	29	27	34
Nonresident aliens 2/	3,428	3,800	4,348	5,342	5,344	6,208	6,543	6,673
Unknown race/ethnicity	11	133	349	709	737	1,188	1,008	839
	Women							
Total, all recipients	720	952	1,362	2,243	2,767	3,081	3,268	3,357
U.S. citizens and permanent residents, total 1/	603	792	1,145	1,819	2,231	2,422	2,424	2,411
White, non-Hispanics	540	709	970	1,540	1,874	1,958	1,937	1,893
Asians	33	48	105	177	195	293	308	323
Black, non-Hispanics	18	22	38	56	88	93	100	99
Hispanics	11	11	27	42	68	74	73	90
American Indians or Alaskan Natives	1	2	5	4	6	4	8	6
Nonresident aliens 2/	117	180	215	352	437	539	698	847
Unknown race/ethnicity	0	0	2	72	99	120	148	99

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 28. Number of earned master's degrees in engineering technologies, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	NA	NA	NA	816	883	1,135	1,194	1,188
U.S. citizens and permanent residents, total 1/	NA	NA	NA	598	712	909	980	959
White, non-Hispanics	NA	NA	NA	528	581	802	823	830
Asians	NA	NA	NA	25	46	40	79	60
Black, non-Hispanics	NA	NA	NA	37	42	55	44	47
Hispanics	NA	NA	NA	6	17	10	9	19
American Indians or Alaskan Natives	NA	NA	NA	2	26	2	5	3
Nonresident aliens 2/	NA	NA	NA	124	127	131	162	172
Unknown race/ethnicity	NA	NA	NA	96	44	95	72	57
	Men							
Total, all recipients	NA	NA	NA	674	678	892	888	868
U.S. citizens and permanent residents, total 1/	NA	NA	NA	481	549	715	690	705
White, non-Hispanics	NA	NA	NA	423	436	631	607	619
Asians	NA	NA	NA	23	41	36	40	39
Black, non-Hispanics	NA	NA	NA	28	35	40	32	29
Hispanics	NA	NA	NA	5	11	7	7	17
American Indians or Alaskan Natives	NA	NA	NA	2	26	1	4	1
Nonresident aliens 2/	NA	NA	NA	115	105	103	131	131
Unknown race/ethnicity	NA	NA	NA	78	24	74	67	52
	Women							
Total, all recipients	NA	NA	NA	142	205	243	306	300
U.S. citizens and permanent residents, total 1/	NA	NA	NA	115	163	194	270	254
White, non-Hispanics	NA	NA	NA	103	145	171	216	211
Asians	NA	NA	NA	2	5	4	39	21
Black, non-Hispanics	NA	NA	NA	9	7	15	12	18
Hispanics	NA	NA	NA	1	6	3	2	2
American Indians or Alaskan Natives	NA	NA	NA	0	0	1	1	2
Nonresident aliens 2/	NA	NA	NA	9	22	28	31	41
Unknown race/ethnicity	NA	NA	NA	18	20	21	5	5

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Data include degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

KEY: NA = Not available

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 29. Number of earned master's degrees in science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	67,224	64,275	63,153	59,695	61,458	64,048	65,841	67,119
U.S. citizens and permanent residents, total 1/	62,487	58,963	57,090	50,880	49,879	51,458	52,547	54,256
White, non-Hispanics	55,217	52,076	50,280	43,915	42,953	44,032	44,747	45,800
Asians	1,284	1,382	1,402	1,992	2,095	2,490	2,530	2,688
Black, non-Hispanics	3,957	3,798	3,435	2,822	2,820	2,798	3,172	3,427
Hispanics	1,827	1,487	1,767	1,885	1,779	1,871	1,875	2,107
American Indians or Alaskan Natives	202	222	226	266	232	289	223	254
Nonresident aliens 2/	4,737	5,151	5,905	7,438	7,983	9,202	9,838	10,321
Unknown race/ethnicity	0	161	158	1,377	3,596	3,388	3,456	2,542
	Men							
Total, all recipients	43,082	38,765	36,115	31,944	32,130	32,877	33,415	32,916
U.S. citizens and permanent residents, total 1/	39,377	34,649	31,523	25,775	24,625	24,772	24,850	24,787
White, non-Hispanics	35,500	31,142	28,134	22,377	21,251	21,327	21,337	21,105
Asians	818	847	839	1,201	1,238	1,389	1,368	1,441
Black, non-Hispanics	1,881	1,715	1,490	1,185	1,147	1,087	1,215	1,249
Hispanics	1,075	821	931	871	880	848	829	885
American Indians or Alaskan Natives	123	124	129	141	109	143	101	107
Nonresident aliens 2/	3,705	3,985	4,439	5,361	5,652	6,387	6,654	6,841
Unknown race/ethnicity	0	151	153	808	1,853	1,718	1,911	1,288
	Women							
Total, all recipients	24,142	25,510	27,038	27,751	29,328	31,171	32,426	34,203
U.S. citizens and permanent residents, total 1/	23,110	24,314	25,567	25,105	25,254	26,686	27,697	29,469
White, non-Hispanics	19,717	20,934	22,128	21,538	21,702	22,705	23,410	24,695
Asians	466	535	563	791	857	1,101	1,162	1,227
Black, non-Hispanics	2,096	2,081	1,945	1,637	1,673	1,729	1,957	2,178
Hispanics	752	666	836	1,014	899	1,025	1,046	1,222
American Indians or Alaskan Natives	79	98	97	125	123	128	122	147
Nonresident aliens 2/	1,032	1,186	1,466	2,077	2,331	2,815	3,184	3,480
Unknown race/ethnicity	0	10	5	569	1,743	1,670	1,545	1,254

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 30. Number of earned master's degrees in natural sciences, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	22,730	22,451	22,119	24,034	25,269	26,089	26,293	25,669
U.S. citizens and permanent residents, total 1/	20,197	19,509	18,753	19,061	18,900	18,722	18,373	17,935
White, non-Hispanics	18,861	17,907	17,119	16,735	16,352	16,080	15,742	15,005
Asians	586	722	741	1,229	1,426	1,617	1,629	1,735
Black, non-Hispanics	551	518	488	523	581	495	527	644
Hispanics	336	288	353	481	493	444	431	494
American Indians or Alaskan Natives	63	74	52	93	48	86	44	57
Nonresident aliens 2/	2,533	2,832	3,232	4,572	5,035	5,922	6,330	6,734
Unknown race/ethnicity	0	110	134	401	1,334	1,445	1,590	1,000
	Men							
Total, all recipients	17,114	16,427	15,866	16,300	16,714	17,250	17,258	16,530
U.S. citizens and permanent residents, total 1/	15,057	14,027	13,225	12,570	12,119	11,988	11,702	11,188
White, non-Hispanics	14,015	12,984	12,144	11,098	10,523	10,357	10,116	9,491
Asians	435	502	496	804	908	990	976	1,031
Black, non-Hispanics	314	301	299	300	338	290	307	338
Hispanics	244	189	248	307	318	282	275	294
American Indians or Alaskan Natives	49	51	38	63	32	67	28	32
Nonresident aliens 2/	2,057	2,292	2,544	3,434	3,678	4,265	4,439	4,691
Unknown race/ethnicity	0	108	129	298	917	999	1,117	653
	Women							
Total, all recipients	5,616	6,024	6,221	7,734	8,555	8,839	9,035	9,139
U.S. citizens and permanent residents, total 1/	5,140	5,482	5,528	6,491	6,781	6,736	6,671	6,749
White, non-Hispanics	4,846	4,923	4,975	5,639	5,829	5,723	5,626	5,514
Asians	151	220	245	425	518	627	653	704
Black, non-Hispanics	237	217	189	223	243	205	220	306
Hispanics	92	99	105	174	175	162	156	200
American Indians or Alaskan Natives	14	23	14	30	16	19	16	25
Nonresident aliens 2/	476	540	688	1,138	1,357	1,657	1,891	2,043
Unknown race/ethnicity	0	2	5	105	417	446	473	347

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 31. Number of earned master's degrees in physical science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	5,345	5,464	5,300	5,802	5,638	5,703	5,411	5,282
U.S. citizens and permanent residents, total 1/	4,689	4,713	4,457	4,583	4,271	4,232	3,829	3,582
White, non-Hispanics	4,363	4,373	4,115	4,133	3,834	3,766	3,401	3,129
Asians	142	160	153	213	227	278	234	251
Black, non-Hispanics	94	86	107	89	79	78	87	73
Hispanics	69	65	71	127	122	92	98	96
American Indians or Alaskan Natives	21	29	11	21	9	18	9	13
Nonresident aliens 2/	656	706	788	1,098	1,056	1,238	1,384	1,504
Unknown race/ethnicity	0	45	57	121	311	233	218	216
	Men							
Total, all recipients	4,458	4,472	4,213	4,450	4,225	4,180	3,981	3,825
U.S. citizens and permanent residents, total 1/	3,929	3,835	3,516	3,484	3,159	3,082	2,788	2,598
White, non-Hispanics	3,680	3,561	3,255	3,135	2,855	2,750	2,518	2,299
Asians	123	129	115	154	164	179	140	165
Black, non-Hispanics	55	67	79	61	45	56	61	43
Hispanics	55	52	58	95	89	85	63	73
American Indians or Alaskan Natives	16	26	9	19	7	12	6	8
Nonresident aliens 2/	529	592	641	889	834	954	1,028	1,070
Unknown race/ethnicity	0	45	56	97	232	164	165	167
	Women							
Total, all recipients	887	992	1,087	1,352	1,413	1,523	1,430	1,457
U.S. citizens and permanent residents, total 1/	760	878	941	1,119	1,112	1,170	1,041	974
White, non-Hispanics	683	812	860	998	979	1,016	883	830
Asians	19	31	38	59	63	99	94	88
Black, non-Hispanics	39	19	28	28	34	22	28	30
Hispanics	14	13	13	32	34	27	35	23
American Indians or Alaskan Natives	5	3	2	2	2	6	3	5
Nonresident aliens 2/	127	114	145	209	222	284	338	434
Unknown race/ethnicity	0	0	1	24	79	69	53	49

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 32. Number of earned master's degrees in mathematical science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	3,698	3,046	2,569	2,888	3,327	3,430	3,684	3,632
U.S. citizens and permanent residents, total 1/	3,328	2,571	2,103	2,152	2,331	2,309	2,480	2,451
White, non-Hispanics	3,048	2,352	1,890	1,873	2,012	2,032	2,169	2,088
Asians	90	104	97	164	183	178	184	189
Black, non-Hispanics	133	71	67	53	73	59	70	100
Hispanics	45	36	42	55	60	34	51	85
American Indians or Alaskan Natives	12	8	7	7	3	6	6	9
Nonresident aliens 2/	370	472	464	685	836	976	1,035	1,059
Unknown race/ethnicity	0	3	2	51	160	145	169	122
	Men							
Total, all recipients	2,398	1,989	1,692	1,877	2,026	2,060	2,208	2,146
U.S. citizens and permanent residents, total 1/	2,112	1,609	1,348	1,347	1,384	1,348	1,455	1,389
White, non-Hispanics	1,950	1,479	1,212	1,170	1,187	1,173	1,275	1,169
Asians	55	67	64	108	110	117	108	108
Black, non-Hispanics	75	35	33	34	45	32	37	53
Hispanics	24	22	31	31	41	21	33	52
American Indians or Alaskan Natives	8	6	6	4	1	5	4	7
Nonresident aliens 2/	286	377	344	499	544	632	649	683
Unknown race/ethnicity	0	3	2	31	98	80	104	74
	Women							
Total, all recipients	1,300	1,057	877	1,011	1,301	1,370	1,476	1,486
U.S. citizens and permanent residents, total 1/	1,216	962	757	805	947	961	1,025	1,062
White, non-Hispanics	1,098	873	678	703	825	859	894	899
Asians	35	37	33	56	73	61	76	81
Black, non-Hispanics	58	36	34	19	28	27	33	47
Hispanics	21	14	11	24	19	13	18	33
American Indians or Alaskan Natives	4	2	1	3	2	1	2	2
Nonresident aliens 2/	84	95	120	186	292	344	386	376
Unknown race/ethnicity	0	0	0	20	62	65	65	48

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 33. Number of earned master's degrees in computer science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	2,798	3,055	4,218	7,101	8,461	9,399	9,643	9,324
U.S. citizens and permanent residents, total 1/	2,432	2,528	3,239	5,233	5,848	6,061	6,149	6,076
White, non-Hispanics	2,208	2,273	2,818	4,303	4,717	4,788	4,851	4,637
Asians	108	149	279	615	779	894	941	1,014
Black, non-Hispanics	67	65	70	180	207	198	232	283
Hispanics	46	25	60	94	123	144	118	128
American Indians or Alaskan Natives	3	16	12	41	22	39	7	14
Nonresident aliens 2/	366	465	904	1,709	2,067	2,442	2,563	2,819
Unknown race/ethnicity	0	62	75	159	566	896	931	429
	Men							
Total, all recipients	2,332	2,460	3,247	5,064	5,985	6,773	6,968	6,563
U.S. citizens and permanent residents, total 1/	2,003	2,016	2,465	3,667	3,987	4,250	4,321	4,131
White, non-Hispanics	1,844	1,838	2,153	3,052	3,229	3,430	3,474	3,260
Asians	80	115	205	414	522	565	609	627
Black, non-Hispanics	41	43	52	108	128	119	140	150
Hispanics	35	14	45	65	91	100	93	84
American Indians or Alaskan Natives	3	6	10	28	19	36	5	10
Nonresident aliens 2/	329	404	711	1,269	1,575	1,848	1,933	2,144
Unknown race/ethnicity	0	60	71	128	423	675	714	288
	Women							
Total, all recipients	466	575	971	2,037	2,496	2,626	2,675	2,761
U.S. citizens and permanent residents, total 1/	429	512	774	1,566	1,861	1,811	1,828	1,945
White, non-Hispanics	364	435	665	1,251	1,488	1,358	1,377	1,377
Asians	28	34	74	201	257	329	332	387
Black, non-Hispanics	26	22	18	72	81	79	92	133
Hispanics	11	11	15	29	32	44	25	44
American Indians or Alaskan Natives	0	10	2	13	3	3	2	4
Nonresident aliens 2/	37	61	193	440	492	594	630	675
Unknown race/ethnicity	0	2	4	31	143	221	217	141

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 34. Number of earned master's degrees in biological science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	7,154	6,879	6,015	5,091	4,999	4,953	4,893	4,808
U.S. citizens and permanent residents, total 1/	6,677	6,415	5,647	4,588	4,239	4,169	3,970	3,870
White, non-Hispanics	6,182	5,882	5,213	4,081	3,745	3,679	3,501	3,353
Asians	165	205	145	179	190	223	225	231
Black, non-Hispanics	208	217	171	151	167	124	110	137
Hispanics	109	115	103	139	128	128	120	138
American Indians or Alaskan Natives	15	16	15	18	11	17	14	13
Nonresident aliens 2/	477	464	368	474	509	636	729	749
Unknown race/ethnicity	0	0	0	49	251	148	194	187
	Men							
Total, all recipients	4,738	4,287	3,675	2,662	2,555	2,491	2,393	2,315
U.S. citizens and permanent residents, total 1/	4,409	3,988	3,433	2,349	2,154	2,084	1,928	1,849
White, non-Hispanics	4,122	3,710	3,226	2,126	1,932	1,830	1,711	1,629
Asians	108	114	62	86	85	105	97	104
Black, non-Hispanics	99	95	82	67	80	59	51	58
Hispanics	71	61	54	62	53	62	61	54
American Indians or Alaskan Natives	11	8	9	8	4	8	8	4
Nonresident aliens 2/	329	299	242	286	268	357	379	370
Unknown race/ethnicity	0	0	0	27	133	70	86	96
	Women							
Total, all recipients	2,416	2,592	2,340	2,429	2,444	2,462	2,500	2,491
U.S. citizens and permanent residents, total 1/	2,268	2,427	2,214	2,219	2,085	2,105	2,042	2,021
White, non-Hispanics	2,060	2,152	1,987	1,955	1,813	1,849	1,790	1,724
Asians	59	91	83	93	105	118	128	127
Black, non-Hispanics	107	122	89	84	87	65	59	79
Hispanics	38	54	49	77	73	64	59	82
American Indians or Alaskan Natives	4	8	6	10	7	9	6	9
Nonresident aliens 2/	148	165	126	188	241	279	350	379
Unknown race/ethnicity	0	0	0	22	118	78	108	91

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 35. Number of earned master's degrees in agricultural science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	3,735	4,007	4,017	3,152	2,824	2,804	2,882	2,825
U.S. citizens and permanent residents, total 1/	3,071	3,282	3,307	2,525	2,211	1,951	1,945	1,976
White, non-Hispanics	2,880	3,047	3,083	2,345	2,044	1,817	1,820	1,818
Asians	81	104	67	58	47	44	45	50
Black, non-Hispanics	51	79	73	50	55	38	28	51
Hispanics	67	47	77	68	62	48	44	49
American Indians or Alaskan Natives	12	5	7	6	3	6	8	8
Nonresident aliens 2/	664	725	710	608	567	630	639	603
Unknown race/ethnicity	0	0	0	21	46	23	78	46
	Men							
Total, all recipients	3,188	3,199	3,071	2,247	1,923	1,746	1,708	1,681
U.S. citizens and permanent residents, total 1/	2,604	2,579	2,465	1,743	1,435	1,282	1,210	1,229
White, non-Hispanics	2,419	2,398	2,299	1,613	1,320	1,174	1,138	1,134
Asians	71	77	50	42	27	24	24	27
Black, non-Hispanics	44	61	53	30	42	24	18	34
Hispanics	59	40	60	54	45	34	25	31
American Indians or Alaskan Natives	11	5	4	4	1	6	5	3
Nonresident aliens 2/	584	620	608	491	457	474	450	424
Unknown race/ethnicity	0	0	0	13	31	10	48	28
	Women							
Total, all recipients	547	808	946	905	901	858	954	944
U.S. citizens and permanent residents, total 1/	467	703	842	782	776	669	735	747
White, non-Hispanics	441	651	785	732	724	643	682	684
Asians	10	27	17	16	20	20	21	23
Black, non-Hispanics	7	18	20	20	13	12	10	17
Hispanics	8	7	17	12	17	14	19	18
American Indians or Alaskan Natives	1	0	3	2	2	0	3	5
Nonresident aliens 2/	80	105	104	115	110	158	189	179
Unknown race/ethnicity	0	0	0	8	15	13	30	18

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 38. Number of earned master's degrees in social sciences, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	44,494	41,824	41,034	35,861	36,189	37,959	39,548	41,450
U.S. citizens and permanent residents, total 1/	42,290	39,454	38,337	31,819	30,979	32,738	34,174	36,321
White, non-Hispanics	36,558	34,169	33,141	27,180	26,601	27,952	29,005	30,795
Asians	669	690	681	763	689	873	901	933
Black, non-Hispanics	3,408	3,278	2,947	2,239	2,239	2,301	2,645	2,783
Hispanics	1,491	1,199	1,414	1,404	1,288	1,427	1,444	1,813
American Indians or Alaskan Natives	139	148	174	173	184	183	179	197
Nonresident aliens 2/	2,204	2,319	2,673	2,898	2,948	3,280	3,508	3,587
Unknown race/ethnicity	0	51	24	976	2,262	1,943	1,866	1,542
	Men							
Total, all recipients	25,966	22,338	20,217	15,844	15,416	15,627	16,157	16,386
U.S. citizens and permanent residents, total 1/	24,320	20,622	18,298	13,205	12,506	12,786	13,148	13,601
White, non-Hispanics	21,486	18,158	15,990	11,281	10,728	10,970	11,221	11,614
Asians	363	345	343	397	330	399	392	410
Black, non-Hispanics	1,547	1,414	1,191	885	809	777	908	911
Hispanics	831	632	683	564	562	564	554	591
American Indians or Alaskan Natives	74	73	91	78	77	76	73	75
Nonresident aliens 2/	1,646	1,673	1,895	1,927	1,974	2,122	2,215	2,150
Unknown race/ethnicity	0	43	24	512	936	719	794	635
	Women							
Total, all recipients	18,528	19,486	20,817	20,017	20,773	22,332	23,391	25,064
U.S. citizens and permanent residents, total 1/	17,970	18,832	20,039	18,614	18,473	19,950	21,026	22,720
White, non-Hispanics	15,071	16,011	17,151	15,899	15,873	16,982	17,784	19,181
Asians	315	315	318	366	339	474	509	523
Black, non-Hispanics	1,899	1,864	1,756	1,414	1,430	1,524	1,737	1,872
Hispanics	660	567	731	840	724	863	890	1,022
American Indians or Alaskan Natives	65	75	83	95	107	107	106	122
Nonresident aliens 2/	558	646	778	939	974	1,158	1,293	1,437
Unknown race/ethnicity	0	8	0	464	1,328	1,224	1,072	907

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1991 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 37. Number of earned master's degrees in social science, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	36,174	33,760	32,996	27,180	26,024	29,307	30,240	31,648
U.S. citizens and permanent residents, total 1/	34,141	31,602	30,569	23,683	23,499	24,742	25,649	27,284
White, non-Hispanics	29,365	27,091	26,122	19,890	19,903	20,877	21,516	22,822
Asians	603	573	594	634	598	742	742	763
Black, non-Hispanics	2,900	2,802	2,523	1,873	1,883	1,908	2,174	2,329
Hispanics	1,170	1,008	1,197	1,080	1,015	1,067	1,075	1,222
American Indians or Alaskan Natives	113	128	142	138	149	150	142	148
Nonresident aliens 2/	2,033	2,158	2,403	2,570	2,728	3,021	3,123	3,270
Unknown race/ethnicity	0	35	24	947	1,810	1,544	1,468	1,094
	Men							
Total, all recipients	21,652	18,850	16,846	12,580	12,578	12,913	13,132	13,392
U.S. citizens and permanent residents, total 1/	20,101	17,025	15,061	10,281	9,824	10,200	10,398	10,882
White, non-Hispanics	17,710	14,893	13,045	8,680	8,403	8,678	8,790	9,194
Asians	339	307	309	349	287	355	350	363
Black, non-Hispanics	1,341	1,239	1,027	739	683	657	775	782
Hispanics	654	523	582	431	468	448	421	467
American Indians or Alaskan Natives	57	63	78	62	65	64	60	56
Nonresident aliens 2/	1,551	1,590	1,771	1,809	1,886	2,023	2,079	2,046
Unknown race/ethnicity	0	35	24	510	769	590	657	484
	Women							
Total, all recipients	14,522	15,143	16,149	14,600	15,446	16,494	17,108	18,256
U.S. citizens and permanent residents, total 1/	14,040	14,577	15,517	13,402	13,582	14,542	15,253	16,422
White, non-Hispanics	11,645	12,198	13,077	11,200	11,500	12,199	12,726	13,628
Asians	264	266	275	285	259	387	392	400
Black, non-Hispanics	1,559	1,563	1,496	1,134	1,170	1,249	1,399	1,547
Hispanics	516	485	605	649	549	621	654	755
American Indians or Alaskan Natives	56	65	64	74	84	86	82	92
Nonresident aliens 2/	482	568	632	761	843	998	1,044	1,224
Unknown race/ethnicity	0	0	0	437	1,041	954	811	610

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 38. Number of earned master's degrees in psychology, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	8,320	8,031	8,039	8,461	8,165	8,852	9,308	9,802
U.S. citizens and permanent residents, total 1/	8,149	7,852	7,769	8,156	7,493	7,994	8,525	9,037
White, non-Hispanics	7,201	7,078	7,019	7,220	6,698	7,075	7,489	7,973
Asians	95	87	77	129	113	131	159	170
Black, non-Hispanics	508	476	424	428	378	395	471	454
Hispanics	321	191	217	344	271	360	369	391
American Indians or Alaskan Natives	26	20	32	37	35	33	37	49
Nonresident aliens 2/	171	163	270	298	220	259	385	317
Unknown race/ethnicity	0	16	0	29	452	399	398	448
	Men							
Total, all recipients	4,316	3,688	3,371	3,094	2,838	2,814	3,025	2,994
U.S. citizens and permanent residents, total 1/	4,219	3,597	3,247	2,944	2,582	2,588	2,752	2,739
White, non-Hispanics	3,775	3,285	2,945	2,601	2,325	2,292	2,431	2,420
Asians	44	38	34	48	33	44	42	47
Black, non-Hispanics	208	175	164	146	116	120	133	129
Hispanics	177	109	91	133	98	118	133	124
American Indians or Alaskan Natives	17	10	13	16	12	12	13	19
Nonresident aliens 2/	97	83	124	118	89	99	136	104
Unknown race/ethnicity	0	8	0	2	167	129	137	151
	Women							
Total, all recipients	4,004	4,343	4,668	5,417	5,327	5,838	6,283	6,808
U.S. citizens and permanent residents, total 1/	3,930	4,255	4,522	5,212	4,911	5,408	5,773	6,298
White, non-Hispanics	3,426	3,813	4,074	4,619	4,373	4,783	5,058	5,553
Asians	51	49	43	81	80	87	117	123
Black, non-Hispanics	300	301	260	280	260	275	338	325
Hispanics	144	82	126	211	175	242	236	267
American Indians or Alaskan Natives	9	10	19	21	23	21	24	30
Nonresident aliens 2/	74	80	146	178	131	160	249	213
Unknown race/ethnicity	0	8	0	27	285	270	261	297

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 30. Number of earned master's degrees in health fields, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	13,082	15,837	16,885	14,801	15,579	16,127	16,808	17,423
U.S. citizens and permanent residents, total 1/	12,579	15,003	15,987	13,810	13,988	14,482	15,108	15,734
White, non-Hispanics	11,220	13,431	14,175	12,092	12,451	12,789	13,204	13,861
Asians	349	373	448	427	416	485	519	484
Black, non-Hispanics	657	801	889	653	643	669	740	807
Hispanics	308	339	421	383	437	473	489	507
American Indians or Alaskan Natives	45	59	54	55	51	67	67	75
Nonresident aliens 2/	513	634	698	785	787	971	915	1,044
Unknown race/ethnicity	0	0	0	226	784	674	805	645
	Men							
Total, all recipients	4,203	4,518	4,399	3,457	3,213	3,452	3,846	3,488
U.S. citizens and permanent residents, total 1/	3,882	4,159	3,950	3,001	2,893	2,895	2,992	2,859
White, non-Hispanics	3,414	3,714	3,443	2,930	2,399	2,489	2,579	2,433
Asians	144	115	194	154	131	143	155	136
Black, non-Hispanics	194	217	197	139	100	132	124	146
Hispanics	110	94	129	95	83	114	116	127
American Indians or Alaskan Natives	20	19	17	14	10	17	18	19
Nonresident aliens 2/	321	359	409	397	417	489	418	469
Unknown race/ethnicity	0	0	0	59	113	98	236	148
	Women							
Total, all recipients	8,889	11,119	12,326	11,144	12,366	12,675	13,162	13,927
U.S. citizens and permanent residents, total 1/	8,697	10,844	12,037	10,809	11,315	11,817	12,116	12,875
White, non-Hispanics	7,806	9,717	10,732	9,462	10,082	10,330	10,715	11,418
Asians	205	258	284	273	285	342	364	359
Black, non-Hispanics	463	584	692	515	543	538	616	662
Hispanics	198	245	292	288	354	359	372	380
American Indians or Alaskan Natives	25	40	37	41	41	50	49	58
Nonresident aliens 2/	192	275	289	388	380	482	497	555
Unknown race/ethnicity	0	0	0	167	671	576	569	497

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 40. Number of earned master's degrees in non-science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1977-91, selected years

Citizenship and race/ethnicity	1977	1979	1981	1985	1987	1989	1990	1991
	Total							
Total, all recipients	221,674	208,653	200,244	191,166	190,555	208,005	217,099	228,761
U.S. citizens and permanent residents, total 1/	212,573	198,428	188,305	174,855	168,910	180,637	188,681	198,762
White, non-Hispanics	188,228	173,812	166,673	154,930	147,985	159,867	165,151	174,408
Asians	2,775	2,914	3,375	3,810	3,922	5,167	5,003	5,840
Black, non-Hispanics	16,187	14,579	12,588	10,118	9,285	9,581	10,130	11,178
Hispanics	4,685	4,429	4,988	5,110	5,036	5,311	5,677	6,583
American Indians or Alaskan Natives	698	694	723	887	702	711	720	753
Nonresident aliens 2/	8,550	9,682	10,892	12,931	13,576	15,072	16,448	18,554
Unknown race/ethnicity	551	543	1,047	3,380	10,069	10,298	13,970	11,445
	Men							
Total, all recipients	105,394	95,931	91,603	88,949	88,344	91,524	95,359	98,945
U.S. citizens and permanent residents, total 1/	98,978	88,698	83,338	78,157	72,889	77,388	79,388	82,855
White, non-Hispanics	89,414	79,851	74,818	70,021	65,050	68,751	70,630	73,018
Asians	1,461	1,587	1,803	2,100	2,113	2,650	2,550	2,920
Black, non-Hispanics	5,505	4,915	4,252	3,588	3,288	3,463	3,511	3,897
Hispanics	2,242	2,033	2,134	2,087	2,103	2,238	2,388	2,717
American Indians or Alaskan Natives	356	330	329	383	315	288	289	303
Nonresident aliens 2/	6,040	6,779	7,382	8,459	8,801	9,435	9,953	11,016
Unknown race/ethnicity	376	456	875	2,333	4,674	4,701	6,038	5,074
	Women							
Total, all recipients	116,280	110,722	108,641	102,217	104,211	114,481	121,740	129,816
U.S. citizens and permanent residents, total 1/	113,595	107,732	104,989	96,698	94,041	103,249	107,313	115,907
White, non-Hispanics	98,814	93,961	91,855	84,909	82,935	91,116	94,521	101,390
Asians	1,314	1,347	1,572	1,710	1,809	2,517	2,453	2,920
Black, non-Hispanics	10,682	9,664	8,316	6,532	5,977	6,118	6,619	7,281
Hispanics	2,443	2,396	2,832	3,043	2,933	3,075	3,289	3,866
American Indians or Alaskan Natives	342	364	394	504	387	423	431	450
Nonresident aliens 2/	2,510	2,903	3,500	4,472	4,775	5,837	6,495	7,538
Unknown race/ethnicity	175	87	172	1,047	5,395	5,595	7,932	6,371

1/ Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

2/ Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics.

Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85, and IPEDS Completions Surveys, 1987-91

Table 41. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	23,134	23,324	23,767	20,223	20,224	20,481	21,274	23,170
Engineering 1/	1,385	1,775	2,449	3,316	3,584	3,275	3,272	3,456
Sciences	21,749	21,549	21,318	16,907	16,640	17,206	18,002	19,714
Natural sciences	4,489	4,700	4,932	6,009	6,524	6,005	5,782	5,834
Physical science	692	704	911	830	823	697	650	753
Earth science	0	0	0	0	0	0	0	0
Mathematical science	712	652	585	770	834	792	720	811
Computer science	361	507	766	2,143	2,820	2,457	2,247	1,997
Biological science	2,415	2,491	2,270	2,047	1,890	1,916	1,994	2,111
Agricultural science	309	346	390	219	157	143	171	162
Social sciences 2/	17,260	16,849	16,386	10,898	10,116	11,201	12,220	13,880
Social science	14,039	13,631	13,078	8,231	7,665	8,458	9,070	10,192
Psychology	3,221	3,218	3,308	2,667	2,451	2,743	3,150	3,688
Health fields	3,138	3,380	3,803	3,082	3,086	3,159	3,320	3,432
Non-S&E 3/	32,430	33,597	33,359	34,258	31,813	33,197	34,707	38,407
Grand total	58,700	60,301	60,729	57,563	55,103	56,837	59,301	65,009
	Black recipients from HBCUs							
Total science and engineering	7,386	7,299	7,328	6,000	6,154	5,984	6,085	6,531
Engineering 1/	432	614	847	916	1,064	910	935	963
Sciences	6,954	6,685	6,481	5,084	5,090	5,074	5,150	5,568
Natural sciences	1,949	2,082	2,080	2,369	2,750	2,513	2,353	2,363
Physical science	282	278	364	363	346	320	296	358
Earth science	0	0	0	0	0	0	0	0
Mathematical science	354	307	298	382	425	381	307	369
Computer science	130	194	304	740	1,187	1,048	899	748
Biological science	1,014	1,072	895	783	714	693	764	792
Agricultural science	169	211	219	101	78	71	87	96
Social sciences 2/	5,005	4,623	4,401	2,715	2,340	2,561	2,797	3,205
Social science	4,325	3,849	3,633	2,170	1,875	2,011	2,135	2,364
Psychology	680	774	768	545	465	550	662	841
Health fields	775	745	692	591	664	578	626	701
Non-S&E 3/	12,988	12,616	11,533	10,628	9,771	9,383	9,634	10,731
Grand total	21,117	20,660	19,553	17,219	16,589	15,925	16,345	17,963

See explanatory information and SOURCES at end of table.

Table 41. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	31.5%	31.3%	30.8%	29.7%	30.4%	29.2%	28.6%	28.2%
Engineering 1/	31.2	34.6	34.6	27.6	29.7	27.8	28.6	27.9
Sciences	32.0	31.0	30.4	30.1	30.6	29.5	28.6	28.2
Natural sciences	43.4	43.9	42.2	39.4	42.2	41.8	40.7	40.5
Physical science	40.8	39.5	40.0	43.7	42.0	45.9	45.5	47.5
Earth science	0	0	0	0	0	0	0	0
Mathematical science	49.7	47.1	50.9	49.6	51.0	48.1	42.6	45.5
Computer science	38.0	38.3	38.7	34.5	42.1	42.7	40.0	37.5
Biological science	42.0	43.0	39.4	38.3	37.8	38.2	38.3	37.5
Agricultural science	54.7	61.0	57.6	46.1	49.7	49.7	50.9	59.3
Social sciences 2/	29.0	27.4	26.9	24.9	23.1	22.9	22.9	23.1
Social science	30.8	28.2	27.8	26.4	24.5	23.8	23.5	23.2
Psychology	21.1	24.1	23.2	20.4	19.0	20.1	21.0	22.8
Health fields	24.7	22.0	19.2	19.2	21.7	18.3	18.9	20.4
Non-S&E 3/	40.0	37.6	34.6	31.0	30.7	28.2	27.8	27.9
Grand total	36.0	34.3	32.2	29.9	30.1	28.0	27.6	27.6

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 42. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	11,917	11,083	11,005	9,389	9,272	9,053	9,181	9,815
Engineering 1/	1,295	1,550	2,020	2,488	2,599	2,338	2,369	2,452
Sciences	10,622	9,513	8,985	6,901	6,673	6,715	6,812	7,363
Natural sciences	2,524	2,421	2,501	2,833	2,939	2,732	2,476	2,839
Physical science	494	438	618	457	433	365	282	391
Earth science	0	0	0	0	0	0	0	0
Mathematical science	353	320	278	378	369	374	342	380
Computer science	222	285	394	1,098	1,284	1,205	1,074	971
Biological science	1,197	1,149	954	808	723	700	668	686
Agricultural science	258	251	259	158	100	88	110	100
Social sciences 2/	8,098	7,092	6,484	4,068	3,744	3,983	4,336	4,525
Social science	7,001	6,038	5,444	3,317	3,063	3,338	3,542	3,946
Psychology	1,097	1,054	1,040	751	681	645	794	579
Health fields	429	440	438	321	340	309	349	365
Non-S&E 3/	12,819	13,172	13,082	13,330	12,330	12,551	13,080	14,068
Grand total	25,166	24,675	24,523	23,040	21,942	21,913	22,590	24,238
	Black recipients from HBCUs							
Total science and engineering	3,705	3,471	3,416	2,748	2,813	2,544	2,483	2,587
Engineering 1/	409	539	723	684	777	646	643	633
Sciences	3,296	2,932	2,693	2,064	2,036	1,899	1,840	1,954
Natural sciences	1,049	1,009	1,036	1,081	1,193	1,058	935	951
Physical science	192	157	237	190	158	160	127	163
Earth science	0	0	0	0	0	0	0	0
Mathematical science	174	142	143	184	213	179	134	184
Computer science	63	77	123	329	502	460	377	333
Biological science	472	475	383	299	294	208	231	231
Agricultural science	148	158	150	80	88	51	66	60
Social sciences 2/	2,247	1,923	1,657	983	843	842	905	983
Social science	2,024	1,701	1,439	816	731	715	742	802
Psychology	223	222	218	167	112	127	163	181
Health fields	119	108	108	86	76	55	76	95
Non-S&E 3/	4,690	4,697	4,342	3,948	3,687	3,383	3,507	3,768
Grand total	8,514	8,176	7,884	6,792	6,576	5,982	6,066	6,430

See explanatory information and SOURCES at end of table.

Table 42. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	31.1%	31.4%	31.0%	29.3%	30.3%	28.1%	27.0%	26.2%
Engineering 1/	31.6	34.8	35.8	27.5	30.0	27.6	27.1	25.8
Sciences	31.0	30.8	30.0	29.9	30.5	28.3	27.0	26.3
Natural sciences	41.6	41.7	41.4	38.2	40.6	38.7	37.8	37.5
Physical science	38.9	36.0	38.3	41.6	36.0	43.8	43.5	41.7
Earth science	0	0	0	0	0	0	0	0
Mathematical science	49.3	44.4	51.8	48.9	53.4	47.9	39.2	43.2
Computer science	28.4	29.1	31.2	31.7	39.1	38.2	35.1	34.3
Biological science	39.4	41.3	40.1	37.1	36.5	29.4	35.1	33.2
Agricultural science	57.4	62.9	57.9	50.6	58.0	58.0	60.0	60.0
Social sciences 2/	27.7	27.1	25.6	24.2	22.5	21.1	20.9	20.4
Social science	28.9	28.2	28.4	24.6	23.7	21.4	20.9	20.3
Psychology	20.3	21.1	21.0	22.2	16.9	19.7	20.5	20.6
Health fields	27.7	24.5	24.3	28.8	22.4	17.8	21.8	26.0
Non-S&E 3/	36.6	34.9	33.2	29.6	29.9	27.0	26.9	26.8
Grand total	33.8	33.1	32.1	29.4	30.0	27.3	26.9	26.5

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 43. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	11,217	12,261	12,762	10,834	10,952	11,428	12,093	13,355
Engineering 1/	90	225	429	828	995	937	903	1,004
Sciences	11,127	12,036	12,333	10,006	9,957	10,491	11,190	12,351
Natural sciences	1,995	2,279	2,431	3,176	3,585	3,273	3,308	3,298
Physical science	198	268	293	373	380	332	358	382
Earth science	0	0	0	0	0	0	0	0
Mathematical science	389	332	309	394	435	418	378	431
Computer science	139	242	392	1,107	1,536	1,252	1,173	1,026
Biological science	1,218	1,342	1,316	1,241	1,167	1,216	1,336	1,415
Agricultural science	51	95	121	61	57	55	61	62
Social sciences 2/	9,162	9,757	9,902	6,830	6,372	7,218	7,884	9,055
Social science	7,038	7,593	7,634	4,914	4,582	5,120	5,528	6,246
Psychology	2,124	2,164	2,268	1,916	1,790	2,098	2,356	2,809
Health fields	2,707	2,940	3,167	2,761	2,728	2,850	2,971	3,087
Non-S&E 3/	19,611	20,425	20,277	20,928	19,483	20,846	21,647	24,349
Grand total	33,535	35,628	36,206	34,523	33,161	34,924	36,711	40,771
	Black recipients from HBCUs							
Total science and engineering	3,661	3,828	3,912	3,252	3,341	3,440	3,602	3,984
Engineering 1/	23	75	124	232	287	294	292	330
Sciences	3,658	3,753	3,788	3,020	3,054	3,176	3,310	3,634
Natural sciences	900	1,053	1,044	1,288	1,557	1,457	1,418	1,412
Physical science	90	121	127	173	190	160	169	195
Earth science	0	0	0	0	0	0	0	0
Mathematical science	180	165	155	198	212	202	173	205
Computer science	67	117	181	412	695	598	522	415
Biological science	542	597	512	484	450	487	533	561
Agricultural science	21	53	69	21	20	20	21	36
Social sciences 2/	2,758	2,700	2,744	1,732	1,497	1,719	1,892	2,222
Social science	2,301	2,148	2,194	1,354	1,144	1,296	1,393	1,562
Psychology	457	552	550	378	353	423	499	660
Health fields	656	637	588	505	588	523	560	608
Non-S&E 3/	8,296	8,019	7,191	6,680	6,084	5,980	6,127	6,963
Grand total	12,603	12,484	11,689	10,437	10,013	9,943	10,279	11,533

See explanatory information and SOURCES at end of table.

Table 43. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	32.8%	31.2%	30.7%	30.0%	30.5%	30.1%	29.8%	29.7%
Engineering 1/	25.6	33.3	28.9	28.0	28.8	28.2	32.3	32.9
Sciences	32.9	31.2	30.7	30.2	30.7	30.3	29.6	29.4
Natural sciences	45.8	46.2	42.9	40.6	43.4	44.5	42.9	42.8
Physical science	45.5	45.1	43.3	46.4	48.7	48.2	47.2	53.9
Earth science	0	0	0	0	0	0	0	0
Mathematical science	50.1	49.7	50.2	50.3	48.7	48.3	45.8	47.6
Computer science	48.2	48.3	46.2	37.2	44.6	47.0	44.5	40.4
Biological science	44.5	44.5	38.9	39.0	38.6	40.0	39.9	39.6
Agricultural science	41.2	55.8	57.0	34.4	35.1	36.4	34.4	58.1
Social sciences 2/	30.1	27.7	27.7	25.4	23.5	23.8	24.0	24.5
Social science	32.7	28.3	28.7	27.6	25.0	25.3	25.2	25.0
Psychology	21.5	25.5	24.3	19.7	19.7	20.2	21.2	23.5
Health fields	24.2	21.7	18.5	18.3	21.6	18.4	18.5	19.8
Non-S&E 3/	42.1	39.3	35.5	31.9	31.2	29.0	28.3	28.6
Grand total	37.6	35.0	32.3	30.2	30.2	28.5	28.0	28.3

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 44. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	4,197	4,042	3,695	3,189	3,285	3,208	3,803	3,872
Engineering 1/	240	246	260	367	445	410	431	445
Sciences	3,957	3,796	3,435	2,822	2,820	2,798	3,172	3,427
Natural sciences	551	518	488	523	581	495	527	644
Physical science	94	88	107	89	79	78	87	73
Earth science	0	0	0	0	0	0	0	0
Mathematical science	133	71	67	53	73	59	70	100
Computer science	67	65	70	180	207	198	232	283
Biological science	208	217	171	151	167	124	110	137
Agricultural science	51	79	73	50	55	36	28	51
Social sciences 2/	3,406	3,278	2,947	2,299	2,239	2,301	2,645	2,783
Social science	2,900	2,802	2,523	1,873	1,883	1,906	2,174	2,329
Psychology	506	476	424	426	376	395	471	454
Health fields	657	801	869	653	643	688	740	807
Non-S&E 3/	16,187	14,579	12,568	10,116	9,285	9,561	10,130	11,178
Grand total	21,041	19,422	17,152	13,980	13,173	13,455	14,473	15,857
	Black recipients from HBCUs							
Total science and engineering	707	690	572	509	529	569	611	659
Engineering 1/	8	18	23	35	37	45	45	37
Sciences	699	672	549	474	492	524	566	622
Natural sciences	159	169	144	157	177	143	153	180
Physical science	26	26	42	28	23	23	24	24
Earth science	0	0	0	0	0	0	0	0
Mathematical science	27	20	21	16	17	13	17	21
Computer science	12	3	6	32	39	42	63	59
Biological science	82	88	62	58	67	47	37	46
Agricultural science	12	32	13	23	31	18	12	30
Social sciences 2/	540	503	405	317	315	381	413	442
Social science	425	405	348	280	268	326	338	382
Psychology	115	98	57	37	47	55	75	60
Health fields	16	48	25	37	50	55	38	38
Non-S&E 3/	4,037	3,236	2,568	2,055	1,884	1,744	1,709	1,821
Grand total	4,760	3,974	3,165	2,601	2,443	2,368	2,358	2,518

See explanatory information and SOURCES at end of table.

Table 44. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	16.8%	17.1%	15.5%	16.0%	16.2%	17.7%	17.0%	17.0%
Engineering 1/	3.3	7.3	8.8	9.5	8.3	11.0	10.4	8.3
Sciences	17.7	17.7	16.0	16.8	17.4	18.7	17.8	18.1
Natural sciences	28.9	32.6	29.5	30.0	30.5	28.9	29.0	28.0
Physical science	27.7	30.2	39.3	31.5	29.1	29.5	27.6	32.9
Earth science	0	0	0	0	0	0	0	0
Mathematical science	20.3	28.2	31.3	30.2	23.3	22.0	24.3	21.0
Computer science	17.9	4.6	8.6	17.8	18.8	21.2	27.2	20.8
Biological science	39.8	40.6	38.3	38.4	40.1	37.9	33.6	33.6
Agricultural science	23.5	40.5	17.8	46.0	56.4	50.0	42.9	58.8
Social sciences 2/	15.9	15.3	13.7	13.8	14.1	16.6	15.6	15.9
Social science	14.7	14.5	13.8	14.9	14.4	17.1	15.5	16.4
Psychology	22.7	20.6	13.4	8.7	12.5	13.9	15.9	13.2
Health fields	2.4	6.0	2.8	5.7	7.8	8.2	5.1	4.7
Non-S&E 3/	24.9	22.2	20.6	20.3	20.1	18.2	16.9	16.3
Grand total	22.6	20.5	18.6	18.6	18.5	17.6	16.3	15.9

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 45. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	2,083	1,939	1,712	1,487	1,497	1,369	1,534	1,577
Engineering 1/	222	224	222	302	350	302	319	328
Sciences	1,861	1,715	1,490	1,185	1,147	1,067	1,215	1,249
Natural sciences	314	301	299	300	338	290	307	338
Physical science	55	67	79	61	45	56	61	43
Earth science	0	0	0	0	0	0	0	0
Mathematical science	75	35	33	34	45	32	37	53
Computer science	41	43	52	108	126	119	140	150
Biological science	99	95	82	67	80	59	51	58
Agricultural science	44	61	53	30	42	24	18	34
Social sciences 2/	1,547	1,414	1,191	885	809	777	908	911
Social science	1,341	1,239	1,027	739	693	657	775	782
Psychology	206	175	164	146	116	120	133	129
Health fields	194	217	197	138	100	132	124	145
Non-S&E 3/	5,506	4,915	4,252	3,586	3,288	3,463	3,511	3,897
Grand total	7,782	7,071	6,161	5,211	4,885	4,984	5,169	5,619
	Black recipients from HBCUs							
Total science and engineering	290	267	260	225	217	230	248	253
Engineering 1/	5	15	22	31	22	30	33	29
Sciences	285	272	238	194	195	200	215	224
Natural sciences	72	82	80	75	93	76	84	90
Physical science	10	16	28	17	14	14	14	14
Earth science	0	0	0	0	0	0	0	0
Mathematical science	15	8	10	10	10	8	9	7
Computer science	5	1	6	15	19	24	35	33
Biological science	34	32	25	22	28	19	17	15
Agricultural science	8	25	11	11	22	11	9	21
Social sciences 2/	213	190	158	119	102	124	131	134
Social science	175	159	130	109	91	111	111	120
Psychology	38	31	28	10	11	13	20	14
Health fields	7	14	3	6	7	9	5	7
Non-S&E 3/	1,286	1,021	825	650	558	491	493	506
Grand total	1,583	1,322	1,088	881	782	730	746	766

See explanatory information and SOURCES at end of table.

Table 45. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	13.9%	14.8%	15.2%	15.1%	14.5%	16.8%	16.2%	16.0%
Engineering 1/	2.3	6.7	9.9	10.3	6.3	9.9	10.3	8.8
Sciences	15.3	15.9	16.0	16.4	17.0	18.7	17.7	17.9
Natural sciences	22.9	27.2	28.8	25.0	27.5	28.2	27.4	28.6
Physical science	18.2	23.9	35.4	27.9	31.1	25.0	23.0	32.6
Earth science	0	0	0	0	0	0	0	0
Mathematical science	20.0	22.9	30.3	29.4	22.2	25.0	24.3	13.2
Computer science	12.2	2.3	11.5	13.9	15.1	20.2	25.0	22.0
Biological science	34.3	33.7	30.5	32.8	35.0	32.2	33.3	25.9
Agricultural science	18.2	41.0	20.8	38.7	52.4	45.8	50.0	61.8
Social sciences 2/	13.8	13.4	13.3	13.4	12.6	16.0	14.4	14.7
Social science	13.0	12.8	12.7	14.7	13.1	16.9	14.3	15.3
Psychology	18.4	17.7	17.1	6.8	9.5	10.8	15.0	10.9
Health fields	3.8	6.5	1.8	4.3	7.0	6.8	4.0	4.8
Non-S&E 3/	23.4	20.8	19.4	18.1	17.0	14.2	14.0	13.0
Grand total	20.3	18.7	17.7	16.9	16.0	14.7	14.4	13.6

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 48. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all black recipients							
Total science and engineering	2,114	2,103	1,883	1,702	1,768	1,837	2,089	2,295
Engineering 1/	18	22	38	65	95	108	112	117
Sciences	2,096	2,081	1,845	1,637	1,673	1,729	1,957	2,178
Natural sciences	237	217	189	223	243	205	220	308
Physical science	39	19	28	23	34	22	28	30
Earth science	0	0	0	0	0	0	0	0
Mathematical science	58	38	34	19	28	27	33	47
Computer science	26	22	18	72	81	79	92	133
Biological science	107	122	89	84	67	65	59	79
Agricultural science	7	16	20	20	13	12	10	17
Social sciences 2/	1,859	1,864	1,656	1,414	1,430	1,524	1,737	1,872
Social science	1,559	1,563	1,406	1,134	1,170	1,249	1,389	1,547
Psychology	300	301	250	280	260	275	338	325
Health fields	483	584	682	515	543	538	616	692
Non-S&E 3/	10,692	9,884	8,316	6,532	5,977	6,118	6,619	7,281
Grand total	13,259	12,351	10,891	8,749	8,288	8,491	9,304	10,238
	Black recipients from HBCUs							
Total science and engineering	417	403	312	284	312	339	363	408
Engineering 1/	3	3	1	4	15	15	12	8
Sciences	414	400	311	280	297	324	351	399
Natural sciences	87	87	64	82	84	67	69	90
Physical science	16	10	14	11	9	9	10	10
Earth science	0	0	0	0	0	0	0	0
Mathematical science	12	12	11	6	7	5	8	14
Computer science	7	2	0	17	20	18	28	28
Biological science	48	56	37	38	39	28	20	31
Agricultural science	4	7	2	12	9	7	3	9
Social sciences 2/	327	313	247	198	213	257	282	309
Social science	250	246	218	171	177	215	227	262
Psychology	77	67	29	27	36	42	55	46
Health fields	9	34	22	31	43	46	33	31
Non-S&E 3/	2,751	2,215	1,763	1,405	1,308	1,253	1,216	1,315
Grand total	3,177	2,662	2,097	1,720	1,681	1,639	1,612	1,752

See explanatory information and SOURCES at end of table.

Table 48. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from HBCUs							
Total science and engineering	19.7%	19.2%	15.7%	16.7%	17.6%	18.5%	17.5%	17.7%
Engineering 1/	16.7	13.6	2.6	6.2	15.8	13.9	10.7	6.8
Sciences	19.8	19.2	16.0	17.1	17.8	18.7	17.9	18.3
Natural sciences	38.7	40.1	33.9	38.8	34.6	32.7	31.4	29.4
Physical science	41.0	52.6	50.0	39.3	26.5	40.9	38.5	33.3
Earth science	0	0	0	0	0	0	0	0
Mathematical science	20.7	33.3	32.4	31.8	25.0	18.5	24.2	29.8
Computer science	28.9	9.1	.0	23.6	24.7	22.8	30.4	19.5
Biological science	44.9	45.9	41.8	42.9	44.8	43.1	33.9	39.2
Agricultural science	57.1	38.9	10.0	60.0	69.2	58.3	30.0	52.9
Social sciences 2/	17.8	16.8	14.1	14.0	14.9	16.9	16.2	16.5
Social science	16.0	15.7	14.8	15.1	15.1	17.2	16.2	16.9
Psychology	25.7	22.3	11.2	9.6	13.8	15.3	16.3	14.2
Health fields	1.9	5.8	3.2	6.0	7.9	8.6	5.4	4.7
Non-S&E 3/	25.8	22.9	21.2	21.5	21.9	20.5	18.4	18.1
Grand total	24.0	21.5	19.1	19.7	20.0	19.3	17.3	17.1

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 47. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	11,002	12,163	13,107	13,373	13,846	14,811	15,660	17,021
Engineering 1/	1,280	1,885	1,880	2,712	3,218	3,195	3,295	3,297
Sciences	9,712	10,608	11,287	10,661	10,628	11,616	12,365	13,724
Natural sciences	2,769	3,129	3,048	4,389	4,680	4,417	4,367	4,705
Physical science	484	485	617	680	585	583	522	533
Earth science	0	0	0	0	0	0	0	0
Mathematical science	321	289	275	336	321	373	413	480
Computer science	114	207	413	1,046	1,375	1,195	1,085	1,215
Biological science	1,889	1,825	1,951	2,089	2,148	2,080	2,119	2,284
Agricultural science	228	314	380	250	233	188	218	213
Social sciences 2/	7,008	7,479	7,841	6,202	5,988	7,199	8,039	9,019
Social science	5,369	5,742	5,888	4,589	4,289	5,047	5,623	6,273
Psychology	1,808	1,737	1,813	1,734	1,702	2,152	2,405	2,746
Health fields	1,239	1,889	2,176	2,086	1,885	1,879	2,070	1,970
Non-S&E 3/	14,702	15,857	17,894	20,882	22,365	24,671	28,114	30,036
Grand total	27,043	28,719	33,167	36,391	38,198	41,361	43,894	49,027
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	2,886	3,605	3,917	3,427	3,431	3,469	3,462	3,363
Engineering 1/	382	424	387	448	679	759	744	691
Sciences	2,888	3,181	3,530	2,979	2,752	2,700	2,718	2,672
Natural sciences	873	1,124	1,382	1,442	1,388	1,479	1,447	1,448
Physical science	114	153	212	344	173	184	184	154
Earth science	0	0	0	0	0	0	0	0
Mathematical science	88	88	90	78	88	89	89	108
Computer science	19	80	111	219	337	328	281	327
Biological science	578	716	807	888	916	858	882	797
Agricultural science	64	112	142	73	72	42	71	60
Social sciences 2/	1,720	2,057	2,168	1,537	1,188	1,221	1,271	1,226
Social science	1,314	1,531	1,680	1,134	847	798	856	797
Psychology	408	526	508	403	349	425	415	429
Health fields	476	632	1,023	861	948	840	853	883
Non-S&E 3/	4,837	5,382	6,380	6,236	7,589	7,903	7,844	8,484
Grand total	8,299	9,619	11,330	10,513	11,898	12,202	12,159	12,510

See explanatory information and SOURCES at end of table.

Table 47. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	27.1%	29.6%	29.9%	25.6%	24.8%	23.4%	22.1%	19.8%
Engineering 1/	30.4	27.3	21.3	16.5	21.1	23.8	22.6	21.0
Sciences	28.7	30.0	31.3	27.9	25.9	23.2	21.9	19.5
Natural sciences	32.3	35.9	37.4	33.1	33.4	33.5	33.2	30.7
Physical science	23.8	30.9	34.4	37.0	29.8	32.7	35.2	28.9
Earth science	0	0	0	0	0	0	0	0
Mathematical science	30.5	32.3	32.7	23.3	18.1	18.5	18.7	22.5
Computer science	16.7	24.2	28.9	21.0	24.5	27.3	24.1	28.9
Biological science	37.1	39.2	41.4	40.0	42.7	41.1	40.7	35.2
Agricultural science	28.1	35.7	38.4	29.2	30.9	21.4	32.6	28.2
Social sciences 2/	24.6	27.5	28.4	24.4	20.0	17.0	15.8	13.6
Social science	24.3	28.7	28.5	24.8	19.9	15.8	15.2	12.7
Psychology	25.2	30.3	28.0	23.2	20.5	19.7	17.3	15.6
Health fields	35.5	37.2	47.0	41.2	47.7	44.7	41.2	33.7
Non-S&E 3/	32.9	33.9	35.7	29.8	33.8	32.0	30.0	28.2
Grand total	30.7	32.4	34.2	28.9	31.2	29.5	27.7	25.5

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 48. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	6,754	6,933	7,214	7,388	7,738	8,104	8,394	8,743
Engineering 1/	1,232	1,435	1,656	2,338	2,694	2,667	2,757	2,894
Sciences	5,522	5,498	5,558	5,050	5,044	5,437	5,627	6,049
Natural sciences	1,724	1,852	2,095	2,380	2,516	2,432	2,358	2,498
Physical science	363	351	420	441	377	382	311	318
Earth science	0	0	0	0	0	0	0	0
Mathematical science	183	153	161	189	198	224	249	259
Computer science	86	146	270	582	768	750	669	738
Biological science	886	950	982	997	1,018	985	955	1,019
Agricultural science	196	252	292	171	159	131	144	124
Social sciences 2/	3,798	3,646	3,463	2,670	2,528	3,005	3,269	3,551
Social science	3,112	2,980	2,831	2,128	2,015	2,372	2,612	2,834
Psychology	686	666	632	542	513	633	657	757
Health fields	322	279	361	341	339	311	368	377
Non-S&E 3/	6,676	7,119	7,508	8,420	8,561	9,587	9,933	11,861
Grand total	13,752	14,331	15,103	16,149	16,638	18,002	18,663	20,761
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	1,447	1,666	1,810	1,539	1,848	1,728	1,847	1,561
Engineering 1/	370	391	354	396	539	629	566	529
Sciences	1,077	1,275	1,456	1,143	1,109	1,097	1,051	1,032
Natural sciences	434	526	663	644	730	671	628	612
Physical science	68	68	123	132	98	91	90	70
Earth science	0	0	0	0	0	0	0	0
Mathematical science	45	42	48	41	30	39	47	50
Computer science	11	34	77	98	172	197	143	170
Biological science	250	273	304	316	377	322	302	293
Agricultural science	60	89	111	57	53	22	44	29
Social sciences 2/	643	749	793	499	379	428	425	420
Social science	509	576	651	389	310	320	322	310
Psychology	134	173	142	110	69	108	103	110
Health fields	83	57	119	102	141	128	154	108
Non-S&E 3/	1,904	2,189	2,384	2,105	2,313	2,519	2,458	2,900
Grand total	3,434	3,912	4,293	3,746	4,102	4,373	4,259	4,569

See explanatory information and SOURCES at end of table.

Table 48. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	21.4%	24.0%	25.1%	20.8%	21.3%	21.3%	19.6%	17.9%
Engineering 1/	30.0	27.2	21.4	16.9	20.0	23.6	21.6	19.6
Sciences	19.5	23.2	26.2	22.6	22.0	20.2	18.7	17.1
Natural sciences	25.2	28.4	31.6	27.1	29.0	27.6	26.9	24.9
Physical science	18.7	25.1	29.3	29.9	26.0	25.1	28.9	22.0
Earth science	0	0	0	0	0	0	0	0
Mathematical science	24.6	27.5	29.8	21.7	15.3	17.4	18.9	19.3
Computer science	12.8	23.3	28.5	16.8	22.5	26.3	21.4	23.0
Biological science	27.9	28.7	31.9	31.7	37.0	33.4	31.6	28.8
Agricultural science	30.6	35.3	36.0	33.3	33.3	16.6	30.6	23.4
Social sciences 2/	16.9	20.5	22.9	18.7	15.0	14.2	12.9	11.7
Social science	16.4	19.3	23.0	18.3	15.4	13.5	12.3	10.9
Psychology	19.5	26.0	22.5	20.3	13.5	16.7	15.0	14.5
Health fields	25.8	20.4	31.2	29.9	41.6	41.2	42.1	28.6
Non-S&E 3/	28.5	30.7	31.5	25.0	27.0	26.3	24.7	24.9
Grand total	25.0	27.3	26.4	23.2	24.7	24.3	22.8	22.0

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 49. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	4,248	5,230	5,893	5,985	6,108	6,707	7,296	8,278
Engineering 1/	58	120	164	374	524	528	538	603
Sciences	4,190	5,110	5,729	5,611	5,584	6,179	6,758	7,675
Natural sciences	982	1,277	1,551	1,979	2,144	1,985	2,029	2,247
Physical science	121	144	197	219	208	201	211	215
Earth science	0	0	0	0	0	0	0	0
Mathematical science	138	135	114	146	125	149	164	221
Computer science	28	61	143	463	609	445	416	477
Biological science	663	875	999	1,072	1,128	1,125	1,164	1,245
Agricultural science	32	62	98	79	74	65	74	89
Social sciences 2/	3,208	3,833	4,178	3,632	3,440	4,194	4,729	5,428
Social science	2,286	2,762	2,997	2,440	2,251	2,675	3,011	3,439
Psychology	922	1,071	1,181	1,192	1,189	1,519	1,718	1,989
Health fields	1,017	1,420	1,795	1,725	1,648	1,588	1,704	1,593
Non-S&E 3/	8,026	8,738	10,376	12,532	13,804	15,094	16,181	18,375
Grand total	13,291	15,388	18,084	20,242	21,568	23,359	25,181	28,246
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	1,538	1,939	2,107	1,888	1,783	1,733	1,815	1,802
Engineering 1/	22	33	33	52	140	130	148	162
Sciences	1,516	1,906	2,074	1,836	1,643	1,603	1,667	1,640
Natural sciences	439	598	699	798	828	808	821	834
Physical science	46	65	89	112	75	93	94	84
Earth science	0	0	0	0	0	0	0	0
Mathematical science	53	51	42	37	29	30	22	58
Computer science	8	16	34	121	165	129	118	157
Biological science	328	443	503	512	539	538	580	504
Agricultural science	4	23	31	16	19	20	27	31
Social sciences 2/	1,077	1,308	1,375	1,038	817	795	846	806
Social science	805	955	1,009	745	537	476	534	487
Psychology	272	353	366	293	280	319	312	319
Health fields	393	575	904	749	805	712	699	555
Non-S&E 3/	2,933	3,193	4,029	4,130	5,246	5,384	5,386	5,584
Grand total	4,884	5,707	7,040	6,767	7,834	7,829	7,900	7,941

See explanatory information and SOURCES at end of table.

Table 49. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	36.2%	37.1%	35.6%	31.5%	29.2%	25.6%	24.9%	21.8%
Engineering 1/	37.9	27.5	20.1	13.9	26.7	24.6	27.5	26.9
Sciences	36.2	37.3	36.2	32.7	29.4	25.9	24.7	21.4
Natural sciences	44.7	46.8	45.1	40.3	38.5	40.7	40.5	37.1
Physical science	38.0	45.1	45.2	51.1	36.1	46.3	44.5	39.1
Earth science	0	0	0	0	0	0	0	0
Mathematical science	36.4	37.8	36.8	25.3	22.4	20.1	13.4	26.2
Computer science	28.6	26.2	23.8	26.1	27.1	29.0	28.4	32.9
Biological science	49.5	50.6	50.4	47.8	47.8	47.6	48.1	40.5
Agricultural science	12.5	37.1	31.6	20.3	25.7	30.8	36.5	34.8
Social sciences 2/	33.6	34.1	32.9	28.6	23.7	19.0	17.9	14.8
Social science	35.2	34.6	33.7	30.5	23.9	17.8	17.7	14.2
Psychology	29.5	33.0	31.0	24.6	23.5	21.0	18.2	16.0
Health fields	38.6	40.5	50.4	43.4	48.9	45.4	41.0	34.8
Non-S&E 3/	36.5	36.5	38.8	33.0	38.0	35.7	33.3	30.4
Grand total	36.6	37.1	39.0	33.4	36.3	33.5	31.4	28.1

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 50. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	2,078	1,702	2,052	2,237	2,308	2,349	2,330	2,594
Engineering 1/	251	215	285	352	529	478	455	487
Sciences	1,827	1,487	1,767	1,885	1,779	1,871	1,875	2,107
Natural sciences	336	288	353	481	493	444	431	494
Physical science	69	65	71	127	122	92	98	96
Earth science	0	0	0	0	0	0	0	0
Mathematical science	45	36	42	55	60	34	51	85
Computer science	46	25	60	94	123	144	118	128
Biological science	109	115	103	139	128	128	120	136
Agricultural science	67	47	77	66	62	48	44	49
Social sciences 2/	1,491	1,199	1,414	1,404	1,286	1,427	1,444	1,613
Social science	1,170	1,008	1,197	1,060	1,015	1,067	1,075	1,222
Psychology	321	191	217	344	271	360	369	391
Health fields	308	339	421	363	437	473	488	507
Non-S&E 3/	4,885	4,429	4,966	5,110	5,036	5,311	5,677	6,583
Grand total	7,071	6,470	7,439	7,730	7,781	8,133	8,495	9,694
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	348	290	360	318	328	427	346	377
Engineering 1/	6	15	7	9	11	22	32	23
Sciences	342	275	353	309	315	405	314	354
Natural sciences	63	83	66	72	99	62	65	83
Physical science	14	13	16	20	13	19	21	16
Earth science	0	0	0	0	0	0	0	0
Mathematical science	3	10	2	6	8	6	7	17
Computer science	0	0	0	0	0	7	0	0
Biological science	35	47	34	30	44	17	30	39
Agricultural science	11	13	14	16	34	13	7	11
Social sciences 2/	279	192	287	237	216	343	249	271
Social science	267	177	249	166	175	238	164	194
Psychology	12	15	38	71	41	105	85	77
Health fields	133	152	170	135	136	147	120	146
Non-S&E 3/	519	473	447	412	658	673	598	700
Grand total	1,000	915	977	865	1,120	1,247	1,062	1,223

See explanatory information and SOURCES at end of table.

Table 50. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	16.7%	17.0%	17.5%	14.2%	14.1%	18.2%	14.8%	14.5%
Engineering 1/	2.4	7.0	2.5	2.6	2.1	4.6	7.0	4.7
Sciences	18.7	18.5	20.0	16.4	17.7	21.6	16.7	16.8
Natural sciences	18.8	28.8	18.7	15.0	20.1	14.0	15.1	16.8
Physical science	20.3	20.0	22.5	15.7	10.7	20.7	21.4	16.7
Earth science	0	0	0	0	0	0	0	0
Mathematical science	6.7	27.8	4.8	10.9	13.3	17.6	13.7	20.0
Computer science	.0	.0	.0	.0	.0	4.9	.0	.0
Biological science	32.1	40.9	33.0	21.6	34.9	13.5	25.0	28.7
Agricultural science	16.4	27.7	18.2	24.2	54.8	27.1	15.9	22.4
Social sciences 2/	18.7	16.0	20.3	16.9	16.8	24.0	17.2	16.8
Social science	22.8	17.6	20.8	15.7	17.2	22.3	15.3	15.9
Psychology	3.7	7.9	17.5	20.6	15.1	29.2	23.0	19.7
Health fields	43.2	44.8	40.4	35.2	31.1	31.1	24.6	28.8
Non-S&E 3/	11.1	10.7	9.0	8.1	13.1	12.7	10.5	10.6
Grand total	14.1	14.1	13.1	11.2	14.4	15.3	12.5	12.6

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 51. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	1,315	1,025	1,189	1,180	1,335	1,247	1,209	1,280
Engineering 1/	240	204	258	309	455	401	380	395
Sciences	1,075	821	931	871	880	846	829	885
Natural sciences	244	189	248	307	318	282	275	294
Physical science	55	52	58	95	88	65	63	73
Earth science	0	0	0	0	0	0	0	0
Mathematical science	24	22	31	31	41	21	33	52
Computer science	35	14	45	65	91	100	93	84
Biological science	71	61	54	62	53	62	61	54
Agricultural science	59	40	60	54	45	34	25	31
Social sciences 2/	831	632	683	564	562	564	554	591
Social science	654	523	592	431	466	446	421	467
Psychology	177	109	91	133	96	118	133	124
Health fields	110	94	129	95	83	114	116	127
Non-S&E 3/	2,242	2,033	2,134	2,087	2,103	2,236	2,388	2,717
Grand total	3,667	3,152	3,452	3,342	3,521	3,597	3,713	4,124
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	138	124	144	123	131	166	132	115
Engineering 1/	6	14	7	8	11	21	26	15
Sciences	132	110	137	115	120	145	106	100
Natural sciences	38	48	41	40	54	35	33	39
Physical science	8	11	13	8	8	14	11	9
Earth science	0	0	0	0	0	0	0	0
Mathematical science	2	4	0	3	4	2	3	9
Computer science	0	0	0	0	0	4	0	0
Biological science	17	21	18	14	15	5	14	13
Agricultural science	11	12	10	15	27	10	5	8
Social sciences 2/	94	62	96	75	66	110	73	61
Social science	91	53	83	56	56	79	39	43
Psychology	3	9	13	19	10	31	34	18
Health fields	36	24	43	18	28	27	18	32
Non-S&E 3/	225	218	179	142	210	223	215	239
Grand total	399	366	366	283	369	416	365	386

See explanatory information and SOURCES at end of table.

Table 51. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic males, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	10.5%	12.1%	12.1%	10.4%	9.8%	13.3%	10.9%	9.0%
Engineering 1/	2.5	6.9	2.7	2.6	2.4	5.2	6.8	3.8
Sciences	12.3	13.4	14.7	13.2	13.6	17.1	12.8	11.3
Natural sciences	15.6	25.4	16.5	13.0	17.0	12.4	12.0	13.3
Physical science	14.5	21.2	22.4	8.4	9.1	21.5	17.5	12.3
Earth science	0	0	0	0	0	0	0	0
Mathematical science	8.3	18.2	.0	9.7	9.8	9.5	9.1	17.3
Computer science	.0	.0	.0	.0	.0	4.0	.0	.0
Biological science	23.9	34.4	33.3	22.6	28.3	8.1	23.0	24.1
Agricultural science	18.6	30.0	16.7	27.8	60.0	29.4	20.0	25.8
Social sciences 2/	11.3	9.8	14.1	13.3	11.7	19.5	13.2	10.3
Social science	13.9	10.1	14.0	13.0	12.0	17.7	9.3	9.2
Psychology	1.7	8.3	14.3	14.3	10.4	26.3	25.6	14.5
Health fields	32.7	25.5	33.3	18.9	33.7	23.7	15.5	25.2
Non-S&E 3/	10.0	10.7	8.4	6.9	10.0	10.0	9.0	8.8
Grand total	10.9	11.6	10.6	8.5	10.5	11.6	9.8	9.4

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.

Table 52. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Total, all Hispanic recipients							
Total science and engineering	763	677	863	1,057	973	1,102	1,121	1,314
Engineering 1/	11	11	27	43	74	77	75	92
Sciences	752	666	836	1,014	899	1,025	1,046	1,222
Natural sciences	92	99	105	174	175	162	156	200
Physical science	14	13	13	32	34	27	35	23
Earth science	0	0	0	0	0	0	0	0
Mathematical science	21	14	11	24	19	13	18	33
Computer science	11	11	15	29	32	44	25	44
Biological science	38	54	49	77	73	64	59	82
Agricultural science	8	7	17	12	17	14	19	18
Social sciences 2/	660	567	731	840	724	863	890	1,022
Social science	516	485	605	629	549	621	654	755
Psychology	144	82	126	211	175	242	236	267
Health fields	198	245	292	288	354	359	372	380
Non-S&E 3/	2,443	2,396	2,832	3,043	2,933	3,075	3,289	3,866
Grand total	3,404	3,318	3,987	4,388	4,260	4,536	4,782	5,560
	Hispanic recipients from institutions in Puerto Rico							
Total science and engineering	210	166	216	195	195	261	214	262
Engineering 1/	0	1	0	1	0	1	6	8
Sciences	210	165	216	194	195	260	208	254
Natural sciences	25	35	25	32	45	27	32	44
Physical science	6	2	3	12	5	5	10	7
Earth science	0	0	0	0	0	0	0	0
Mathematical science	1	6	2	3	4	4	4	8
Computer science	0	0	0	0	0	3	0	0
Biological science	18	26	16	16	29	12	16	26
Agricultural science	0	1	4	1	7	3	2	3
Social sciences 2/	185	130	191	162	150	233	176	210
Social science	176	124	166	110	119	159	125	151
Psychology	9	6	25	52	31	74	51	59
Health fields	97	128	127	117	108	120	102	114
Non-S&E 3/	294	255	268	270	448	450	391	461
Grand total	601	549	611	582	751	831	697	837

See explanatory information and SOURCES at end of table.

Table 82. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic females, by field: 1977-91, selected years

Field	1977	1979	1981	1985	1987	1989	1990	1991
	Percent from institutions in Puerto Rico							
Total science and engineering	27.5%	24.5%	25.0%	18.4%	20.0%	23.7%	19.1%	19.9%
Engineering 1/	.0	9.1	.0	2.3	.0	1.3	8.0	8.7
Sciences	27.9	24.8	25.8	19.1	21.7	25.4	19.9	20.8
Natural sciences	27.2	35.4	23.8	18.4	25.7	16.7	20.5	22.0
Physical science	42.9	15.4	23.1	37.5	14.7	18.5	28.6	30.4
Earth science	0	0	0	0	0	0	0	0
Mathematical science	4.8	42.9	18.2	12.5	21.1	30.8	22.2	24.2
Computer science	.0	.0	.0	.0	.0	6.8	.0	.0
Biological science	47.4	48.1	32.7	20.8	39.7	18.8	27.1	31.7
Agricultural science	.0	14.3	23.5	8.3	41.2	21.4	10.5	16.7
Social sciences 2/	28.0	22.9	28.1	19.3	20.7	27.0	19.8	20.5
Social science	34.1	25.6	27.4	17.5	21.7	25.6	19.1	20.0
Psychology	6.3	7.3	19.8	24.6	17.7	30.6	21.8	22.1
Health fields	49.0	52.2	43.5	40.6	30.5	33.4	27.4	30.0
Non-S&E 3/	12.0	10.6	9.5	8.9	15.3	14.6	11.6	11.9
Grand total	17.7	16.5	15.3	13.3	17.6	18.3	14.6	15.1

1/ Engineering includes degrees in engineering technology. Racial ethnic data for engineering and engineering technology separately are available for 1985-91 only.

2/ From 1977 to 1981 only, social sciences included the specialties of "Afro-American black cultural studies" and "American Indian studies."

3/ Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter, but data for 1983 were not released by the National Center for Education Statistics. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; biennial data from the HEGIS Earned Degrees Surveys, 1977-85 and IPEDS Completions Surveys, 1987-91.